

according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Version	Revision Date:	SDS Number:	Date of last issue: 01.06.2020
3.6 PRD	06.10.2020	150000000146 SDSEU / EN / 0001	Date of first issue: 04.02.2011

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	:	Eastman NPG(TM) Glycol Platelets
Product code	:	02049-00, P0204901, P0204904, P0204906, P0204910, P0204905, P0204912, E0204901, P0204917
REACH Registration Number	:	01-2119480396-30-0002
Substance name	:	2,2-dimethyl-1,3-propanediol
EC-No.	:	204-781-0

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub- stance/Mixture	:	Please refer to the Annex for a listing of uses. Chemical intermediate
Recommended restrictions on use	:	None known.

1.3 Details of the supplier of the safety data sheet

Company	:	Eastman Chemical Company 200 South Wilcox Drive 37660-5280 Kingsport
Telephone	:	+14232292000
E-mail address of person responsible for the SDS	:	Visit our website at www.EASTMAN.com or email emnmsds@eastman.com

1.4 Emergency telephone

NCEC +44 (0)1235 239 670

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272	2/2008)
Serious eye damage, Category 1	H318: Causes serious eye damage.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Version 3.6 PRD	Revision Date: 06.10.2020	S 15 SI	DS Number: 50000000146 DSEU / EN / 0001	Date of last issue: 01.06.2020 Date of first issue: 04.02.2011
Hazard	pictograms	:		
Signal	Word	:	Danger	
Hazard	Statements	:	H318 Causes se	rious eye damage.
Precau	tionary Statements	:	Prevention: P280 Wear eye	protection/ face protection.
			Response: P305 + P351 + P3 with water for seve sent and easy to d POISON CENTER	38 + P310 IF IN EYES: Rinse cautiously ral minutes. Remove contact lenses, if pre- o. Continue rinsing. Immediately call a / doctor.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name	:	2,2-dimethyl-1,3-propanediol
EC-No.	:	204-781-0

Components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)
2,2-dimethyl-1,3- propanediol	126-30-7	100
	204-781-0	

SECTION 4: First aid measures

4.1 Description of first-aid measures

lf inhaled	:	Move to fresh air. Treat symptomatically. If symptoms persist, call a physician.
In case of skin contact	:	Wash off with soap and water. If symptoms persist, call a physician.



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Vers 3.6 PRD	sion	Revision Date: 06.10.2020	SE 15 SD	DS Number: 0000000146 SEU / EN / 0001	Date of last issue: 01.06.2020 Date of first issue: 04.02.2011			
In case of eye contact		:	: Remove contact lenses, if present and easy to do. Conti rinsing. Immediately call a POISON CENTER/ doctor.					
	lf swall	owed	:	Seek medical advice.				
4.2	Most im	portant symptoms a	nd e	effects, both acute	and delayed			
	Risks		:	Causes serious e	ye damage.			
4.3	Indicati	on of any immediate	me	dical attention and	special treatment needed			
	Treatmo	ent	:	Treat symptomation	cally.			
SE	SECTION 5: Firefighting measures							
5.1	Extingu	ishing media						
	Suitable	e extinguishing media	:	Carbon dioxide (C Dry chemical Water spray	:O2)			
	Unsuita media	ble extinguishing	:	Do NOT use wate	r jet.			
5.2	Special	hazards arising from	the	e substance or mix	xture			
	Specific fighting	c hazards during fire	:	None known.				
	Hazard ucts	ous combustion prod-	:	No hazardous cor	nbustion products are known			
5.3	Advice	for firefighters						
	Special for fire-	protective equipment fighters	:	Wear an approved apparatus in addit	positive pressure self-contained breathing ion to standard fire fighting gear.			
	Further	information	:	None known.				

SECTION 6: Accidental release measures

6.1 Personal precautions, p	orotective	equipment and emergency procedures
Personal precautions :		Wear appropriate personal protective equipment. Local authorities should be advised if significant spillages cannot be contained.
6.2 Environmental precaut	ions	

Environmental precautions : Avoid release to the environment.



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Version	Revision Date:	SDS Number:	Date of last issue: 01.06.2020
3.6 PRD	06.10.2020	150000000146 SDSEU / EN / 0001	Date of first issue: 04.02.2011

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Sweep up or vacuum up spillage and collect in suitable container for disposal.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	Do not get in eyes. Wash thoroughly after handling.
Advice on protection against fire and explosion	:	None known.
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice.
Dust explosion class	:	St2
	_	

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage	: Keep tightly closed.
areas and containers	

7.3 Specific end use(s)

Specific use(s)

: Chemical intermediate

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Routes of expo- sure	Potential health ef- fects	Value
2,2-dimethyl-1,3- propanediol	Workers	Skin contact	Long-term exposure, Systemic effects	5 mg/kg bw/day
	Workers	Inhalation	Long-term exposure, Systemic effects	8,7 mg/m3
	General Popu- lation	Oral	Short-term exposure, Systemic effects	80 mg/kg bw/day
	General Popu- lation	Skin contact	Long-term exposure, Systemic effects	2,5 mg/kg bw/day
	General Popu- lation	Inhalation	Long-term exposure, Systemic effects	2,9 mg/m3
	General Popu- lation	Oral	Long-term exposure, Systemic effects	1,25 mg/kg bw/day



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Version	Revision Date:	SDS Number:	Date of last issue: 01.06.2020
3.6 PRD	06.10.2020	150000000146 SDSEU / EN / 0001	Date of first issue: 04.02.2011

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment Value			
2,2-dimethyl-1,3-propanediol	Fresh water	5 mg/l		
	Marine water	0,5 mg/l		
	Aqua Intermittent	5 mg/l		
	Fresh water sediment	18,5 mg/kg		
	Marine sediment	1,85 mg/kg		
	Soil	0,764 mg/kg		
	Sewage treatment plant	20 mg/l		

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation.

Personal protective equipment						
Eye protection	:	Wear safety glasses with side shields (or goggles). Face-shield Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.				
Hand protection						
Remarks	:	Wear suitable gloves.				
Respiratory protection	:	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.				
Protective measures	:	Remove respiratory and skin/eye protection only after vapors have been cleared from the area. Ensure that eye flushing systems and safety showers are located close to the working place. Use personal protective equipment as required.				

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	crystalline
Color	:	white
Odor	:	sweet
Odor Threshold	:	not determined
рН	:	Not applicable
Melting point/range	:	127 °C
Boiling point/boiling range	:	209 °C (1.013 hPa)

according to Regulation (EC) No. 1907/2006



Vers 3.6 PRD	sion	Revision Date: 06.10.2020	SDS 150 SDS	S Number: 000000146 EU / EN / 0001	Date of last issue: 01.06.2020 Date of first issue: 04.02.2011
	Flash p	oint	:	Not applicable	
	Evapora	ation rate	:	not determined	
	Flamma	ability (solid, gas)	:	Not applicable	
	Upper e flammal	explosion limit / Upper bility limit	:	not determined	
	Lower e flammal	explosion limit / Lower bility limit	:	not determined	
	Vapor p	pressure	:	0,00024 hPa (20	°C)
	Relative	e vapor density	:	3,6	
	Relative	e density	:	1,07 (20 °C)	
	Solubili Wat	ty(ies) er solubility	:	830 g/l (20 °C)	
	Partition octanol	n coefficient: n- /water	:	log Pow: -0,15 (2	5 °C)
	Autoign	ition temperature	:	not determined	
	Decomp	position temperature	:	255 °C	
	Viscosi Visc	ty cosity, dynamic	:	Not applicable	
	Visc	cosity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not classified	
	Oxidizir	ng properties	:	Not classified	
9.2	Other in	nformation			
	Molecul	lar weight	:	104,2 g/mol	
	Dust ex	plosion class	:	St2	
	Minimu	m ignition energy	:	< 3 - 5 mJ	
	Self-ign	ition	:	399 °C	



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Version 3.6 PRD	Revision Date: 06.10.2020	SDS Number: 150000000146 SDSEU / EN / 0001	Date of last issue: 01.06.2020 Date of first issue: 04.02.2011			
SECTION	10. Stability and r	eactivity				
0201101		cuotivity				
10.1 Reac	tivity					
None	reasonably foreseeab	e.				
10.2 Chem	nical stability					
Stable	e under normal conditi	ons.				
10.3 Possi	bility of hazardous r	reactions				
Hazar	dous reactions	: Stable				
10.4 Cond	itions to avoid					
Condit	tions to avoid	: None known.				
10.5 Incon	npatible materials					
Materi	als to avoid	: Strong oxidizin	ig agents			
10.6 Haza	rdous decompositio	n products				
Carbo	n dioxide (CO2)	•				
Carbo	n monoxide					
SECTION	11: Toxicological	information				
11.1 Information on toxicological effects						
Acute	toxicity					
Not cl	assified based on avai	lable information.				

Product:

Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available

Components:

2,2-dimethyl-1,3-propanediol:

Acute oral toxicity	:	LD50 Oral (Rat): 6.920 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 140 mg/l Exposure time: 8 h
Acute dermal toxicity	:	LD50 Dermal (Guinea pig): > 4.000 mg/kg

Skin corrosion/irritation

Not classified based on available information.



according to Regulation (EC) No. 1907/2006

Vers 3.6 PRD	ion	Revision Date: 06.10.2020	SDS Number: 150000000146 SDSEU / EN / 0001		Date of last issue: 01.06.2020 Date of first issue: 04.02.2011
	Produc Remark	<u>:t:</u> :s	:	No data available	
	<u>Compo</u>	onents:			
	2,2-dim	nethyl-1,3-propanedio	ol:		
	Species Exposu Result	s ire time	:	Rabbit 4 h none	
	Seriou	s eye damage/eye irr	itati	on	
	Causes	serious eye damage.			
	Produc	<u>:t:</u>			
	Remark	(S	:	Causes serious ey	/e damage.
	<u>Compo</u>	onents:			
	2,2-dim	nethyl-1,3-propanedio	ol:		
	Species	3	:	Rabbit	
	Exposu Result	ire time	:	24 h Corrosive	
	Respira	atory or skin sensitiza	atior	n	
	Skin se	ensitization			
	Not clas	ssified based on availa	ble i	nformation.	
	Respiration Respiratio Respiratio Respiration Respiration Respiration Respirat	atory sensitization ssified based on availal	ble i	nformation.	
	Produc	et:			
	Remark	XS	:	No data available	
	<u>Compo</u>	onents:			
	2,2-dim	nethyl-1,3-propanedio	ol:		
	Test Ty	pe	:	Skin Sensitization	
	Result	3	:	non-sensitizing	
	Germ o	cell mutagenicity			
	Not clas	ssified based on availa	ble i	nformation.	
	<u>Compo</u>	onents:			
	2,2-dim	ethyl-1,3-propanedio	ol:		
	Genoto	xicity in vitro	:	Test Type: Mutage Metabolic activatio Result: negative	enicity - Bacterial on: +/- activation

according to Regulation (EC) No. 1907/2006



ersion .6 RD	Revision Date: 06.10.2020	SE 15 SD	DS Number: 0000000146 SEU / EN / 0001	Date of last issue: 01.06.2020 Date of first issue: 04.02.2011
			Test Type: Mutage Metabolic activatio Result: negative Remarks: Read-ac	enicity - Mammalian on: +/- activation cross from a similar material
Carcino Not clas	ogenicity ssified based on availa	able	information.	
<u>Produc</u> Remark	<u>:t:</u> :s	:	This information is	s not available.
Reproc Not clas	luctive toxicity ssified based on availa	able	information.	
<u>Produc</u> Effects	e <u>t:</u> on fertility	:	Remarks: No data	available
STOT- इ Not clas	single exposure ssified based on availa	able	information.	
<u>Produc</u> Remark	<u>:t:</u> :s	:	No data available	
STOT-r Not clas	repeated exposure ssified based on availa	able	information.	
<u>Produc</u> Remark	<u>tt:</u> .s	:	No data available	
Repeat	ed dose toxicity			
<u>Compo</u> 2 2-dim	o <u>nents:</u> Dethyl-1 3-propagedi	ol•		
Species NOAEL Applica Exposu	tion Route Organs	· · · · · · · · · · · · · · · · · · ·	Rat, male 300 mg/kg by gavage 45 d Kidney	
Species NOAEL Applica Exposu Remark	s tion Route re time s	::	Rat, female 1.000 mg/kg by gavage 50 - 53 d (highest dose test	ed)
Aspirat Not clas	ion toxicity ssified based on availa	able	information.	



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Vers 3.6 PRD	sion	Revision Date: 06.10.2020	SE 15 SD	DS Number: 0000000146 SEU / EN / 0001	Date of last issue: 01.06.2020 Date of first issue: 04.02.2011
	Produc No data	<u>et:</u> a available			
	Inform	ation on likely routes	of	exposure	
	Produc	: <u>t:</u>			
	Inhalati	on	:	Remarks: None k	nown.
	Skin co	ontact	:	Remarks: None k	nown.
	Eye co	ntact	:	Remarks: Causes	serious eye damage.
	Ingestic	on	:	Remarks: None k	nown.
	Furthe	r information			
	<u>Produc</u> Remark	<u>:t:</u> :s	:	None known.	

SECTION 12: Ecological information

12.1 Toxicity

Components:

2,2-dimethyl-1,3-propanediol:	
Toxicity to fish :	LC50 (Fish): > 10.000 mg/l Exposure time: 48 h
Toxicity to daphnia and other : aquatic invertebrates	EC50 (daphnid): > 500 mg/l Exposure time: 48 h
Toxicity to algae/aquatic : plants	EC50 (Chlorella pyrenoidosa (aglae)): > 500 mg/l Exposure time: 72 h
Toxicity to daphnia and other : aquatic invertebrates (Chron- ic toxicity)	NOEC:: > 1.000 mg/l Exposure time: 21 d Species: daphnid

12.2 Persistence and degradability

Components:

2,2-dimethyl-1,3-propanediol:

: Result: Readily biodegradable.
Biodegradation: > 70 %
Exposure time: 28 d
Method: Ready Biodegradability: CO2 Evolution Test



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Version 3.6 PRD	Revision Date: 06.10.2020	SE 15 SD	0S Number: 0000000146 SEU / EN / 0001	Date of last issue: 01.06.2020 Date of first issue: 04.02.2011
12.3 Bioa	accumulative potential			
<u>Com</u>	ponents:			
2,2-c	limethyl-1,3-propanedi	ol:		
Bioa	ccumulation	:	Bioconcentration	factor (BCF): < 9
Parti octar	tion coefficient: n- nol/water	:	Pow: 1,32 log Pow: 0,12	
12.4 Mob	ility in soil			
<u>Com</u>	ponents:			
2,2-0	limethyl-1,3-propanedi	ol:		
Distr ment	ibution among environ- al compartments	:	log Koc: 1 Method: QSAR n	nodel
12.5 Res	ults of PBT and vPvB a	asses	ssment	
Prod	luct:			
^			TI · · · /	

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

: Dispose of in accordance with local regulations.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

according to Regulation (EC) No. 1907/2006



Eastman NPG(TM) Glycol Platelets

Version	Revision Date:	SDS Number:	Date of last issue: 01.06.2020
3.6 PRD	06.10.2020	150000000146 SDSEU / EN / 0001	Date of first issue: 04.02.2011

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mix-ture

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EC) No 850/2004 on persistent organic pol- lutants	:	Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

The ingredients of this product are reported in the following inventories:

DSL	:	On the inventory, or in compliance with the inventory
AICS	:	On the inventory, or in compliance with the inventory
NZIoC	:	On the inventory, or in compliance with the inventory
ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory

15.2 Chemical Safety Assessment YES

according to Regulation (EC) No. 1907/2006



Eastman NPG(TM) Glycol Platelets

Version Revision Date: 3.6 06.10.2020 PRD SDS Number: 150000000146 SDSEU / EN / 0001 Date of last issue: 01.06.2020 Date of first issue: 04.02.2011

SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods: IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

ZW / EN



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

	Ea	Annex astman NPG(TM) 0 1500000001	Glycol Platelets		
Version 3.6 PRD	Revision Date: 06.10.2020	SDS Number: 150000000146 SDSEU / EN / 0001	Date of last issue: 01.06.2020 Date of first issue: 04.02.2011		

ts:		
	Exposure scenario I.	Manuf acture of the substance or use as a process chemical or extraction agent within closed or contained systems. Includes incidental exposures during recycling/ recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container)., Use as an intermediate
	Exposure scenario II.	Distribution of substance
	Exposure scenario III.	Formulation & (re)packing of substances and mixtures
	Exposure scenario IV.	Use of a construction chemical., Industrial use
	Exposure scenario V.	Use of a construction chemical., Professional use
	Exposure scenario VI.	Use of a construction chemical., Consumer use
	Exposure scenario VII.	Use of small quantities within laboratory settings within enclosed or contained systems, including incidental exposures during material transfers and equipment cleaning., Professional use

Summary

	-	Product		Article (sub)	Environmental release
Manufacture of the	Process categories	category(ies)	Sector(s) of use	category(ies)	category(ies)
substance or use as a process chemical or extraction agent within closed or contained systems. Includes incidental exposures during recycling/ recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container), Use as an intermediate	PROC1 PROC2 PROC3 PROC4 PROC5 PROC8a PROC8b PROC9 PROC15		SU3 SU8 SU9		ERC1 ERC6a ERC6c ERC6d
Distribution of substance	PROC1 PROC2 PROC3 PROC5 PROC8a PROC8b PROC9 PROC15		SU8 SU9 SU10		ERC2
Formulation & (re)packing of substances and mixtures	PROC1 PROC2 PROC3 PROC4 PROC5 PROC5 PROC8a PROC8b PROC9 PROC9 PROC15		SU10		ERC2
Use of a construction chemical., Industrial use	PROC10 PROC13 PROC14		SU3 SU19		ERC5
Use of a construction chemical., Professional use	PROC10 PROC11 PROC13 PROC19		SU22		ERC8c, ERC8f
Use of a construction chemical., Consumer use		PC1, PC9	SU21	AC4	ERC10a ERC11a
Use of small quantities within laboratory settings within enclosed or contained systems, including incidental	PROC15		SU22		ERC8a



according to Regulation (EC) No. 1907/2006

Version Revision Date: 3.6 06.10.2020 PRD		SDS Number: 150000000146 SDSEU / EN / 0001	Date of last issue: 01.06.2020 Date of first issue: 04.02.2011			
exposures d transfers an cleaning., Pro	uring material d equipment ofessional use					



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Version	Revision Date:	SDS Number:	Date of last issue: 01.06.2020
3.6 PRD	06.10.2020	150000000146 SDSEU / EN / 0001	Date of first issue: 04.02.2011

Exposure scenario I. Manufacture of the substance or use as a process chemical or extraction agent within closed or contained systems. Includes incidental exposures during recycling/ recovery, material transfers, storage, sampling, associated laborato ry activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container)., Use as an intermediate

Section 1: Exposure scenario

Sector(s) of use	SU3: Industrial Manuf acturing (all) SU8: Manuf acture of bulk, large scale chemicals (including petroleum products) SU9: Manuf acture of fine chemicals
List of names of contributing worker scenarios and corresponding PROCs	d PROC1. PROC2. PROC3. PROC4. PROC5. PROC8a. PROC8b. PROC9. PROC15.
Name of contributing environmental scenario and corresponding ERC	ERC1 ERC6a ERC6c ERC6d
Section 2: Control of Exposure	
Physical form of product:	solid

· ····································	
Vapour pressure:	0,00024 hPa
Process Temperature:	25 °C
Remarks	Not relevant
Concentration of the Substance in Mixture/Article	Covers the percentage of the substance in the product up to 100 % (unless stated differently).

2.1. Control of Human Exposure

Other conditions affecting workers exposure								
Area of use	Room size	Temperature	Ventilation rate	Remarks				
Covers indoor and outdoor use.	20 m3	25 °C		Solid, low dustiness				

Frequency and duration of use	Duration	Frequency of use	Remarks			
Exposure time	480 min	5 day s/week				
Name of contributing exposu	re scenario		Risk Management Measures			
General exposures (closed systems process, no sampling:	s), Continuous	No other specific measures	identified.			
General exposures (closed systems process, with sample collection:	s), Continuous	No other specific measures	identified.			
Process sampling:		No other specific measures identified.				
Bulk transfers, internal:		Use suitable ey e protection	and gloves.			
Mixing operations (closed systems)	, Batch process:	Use suitable eye protection and gloves.				
Equipment maintenance:		Use suitable eye protection and gloves.				
Bulk transfers, transport:		Use suitable ey e protection	and gloves.			
Drum and small package filling:		Use suitable ey e protection	and gloves.			
Laboratory activities, Pouring from	small containers:	No other specific measures	identified.			



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Version 3.6 PRD	Revision Date: 06.10.2020	SDS Number: 150000000146 SDSEU / EN / 0001	Date of last issue: 01.06.2020 Date of first issue: 04.02.2011
-----------------------	------------------------------	--	---

2.2.Control of environmental exposure Note: Guidance is based on assumed operating conditions which may not be applicable **Risk Management Measures** to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. For further specification, refer to section 8 of the SDS. Technical measures at process level (source) to prevent release None Organizational measures to prevent/limit release from the site Environment factors not influenced by risk management 18.000 m3/d Flow rate of receiving surface water Local freshwater dilution factor 10 Local marine water dilution factor 100 ERC1: Manufacture of substances Technical onsite conditions aa ta raduca ar limit dicabargaa air amiaalar

Soil	Soil emission controls are not applicable as there is no direct release to soil.						
Water	Risk from environmental exposure is driven by wastewater treatment plant microbes., Prevent environmental discharge consistent with regulatory requirements.						
Amounts used: Regional use tonn	8500 tonnes/year						
Amounts used: Fraction of region tonnage used locally	1,12						
Msafe	Annual amount per	r site: 9.520 to	onnes/y ear				
Frequency and duration of use: Continuous process:		300 days/yearCo	ontinuous relea	se			
Other given operational conditions Type:	Emissior	environmental exposure Emission or release fa relevant compartments		ctors to the	Remarks		
		-	Air	Soil	Water		
Continuous release	300		0,001 %	0,01 %	1 %	ESVOC spERC 1.1.v1	
Conditions and measures related to	o sewage t	reatment plant					
Municipal sewage treatment plant:							
Discharge rate	owator of to	2.000 m3/d					
Total efficiency of removarrion wast	ewaler arte			atment plant	.) KIVIIVIS (70).07,3	/8	
Conditions and measures related to	o external	treatment of wast	te for disposa	ıl			
Fraction of used amount transferre	d to extern	al waste treatme	ent		· • ·		
Suitable waste treatment		Treatment effe	ctiveness		Remarks		
External treatment and disposal of was should comply with applicable local as national regulations.							
Waste Recovery		External recover regulations.	ery and recyclin	ng of wastes	should comply with	n applicable local and/or nationa	al

ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates)

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil						
Soil	Soil emission controls are not applicable as there is no direct release to soil.					
Water	Risk from environmental exposure is driven by wastewater treatment plant microbes., Prevent environmental discharge consistent with regulatory requirements.					
Amounts used: Regional use tonnage	8500 tonnes/y ear					



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

	06.10.2020	5D 150 SDS	000000 SEU / E	nber: 20146 N / 0001	Date o Date o	of last is	sue: 01.06 sue: 04.02	.2020		
Amou tonna	unts used: Fraction of regio age used locally	nal	1,12							
Msafe	e		Annua	l amount pe	r site: 9.520 ton	nes/y ear				
Freq Cont	uency and duration of use: tinuous process:		300 d	ays/yearCo	ontinuous release)				
Othe	r given operational condition	ns affectin	ng envir	onmental ex	cposure					
Туре	::	Emissi	ion day	6	Emission or r relevant com	elease fac	tors to the	R	emarks	
Conti	inuous release	300			Air 0 %	0,1 %	1 %	E	SVOC spER	C 6.1a.v1
						•				
Cond	ditions and measures related	to sewage	e treatm	nent plant						
Muni	icipal sewage treatment plant	:								
D	Discharge rate	towater	tor are - '	2.000 m3/	0	mont =		2.0/		
rotal	erriciency of removal from was	siewater af	i ter onsit	e and off site	e (domestic treat	ment plant) KIVIIVIS (%):87,	3%		
Cond	ditions and measures related	to externa	al treatr	nent of was	te for disposal					
Fract	tion of used amount transfer	red to exte	ernal wa	ste treatme	nt					
Suita	able waste treatment		Tre	atment effe	ctiveness		Remarks			
Exter shoul natior	rnal treatment and disposal of v ld comply with applicable local nal regulations.	vaste and/or								
Wast	te Recovery		Ext	ernal recove	erv and recycling	of wastes	hould comply w	vith appli	icable local a	nd/or national
6c: Ind	lustrial use of monomers for ma	inufacture	reg of therm	ulations.						
6c: Indi Techi Soil	lustrial use of monomers for ma nical onsite conditions and r	inufacture neasures	to reduce Soil er	ulations. noplastics ce or limit d nission cont	lischarges, air e	emissions icable as t	and releases t	o soil t release	to soil.	
6c: Ind Tech Soil Wate	lustrial use of monomers for ma nical onsite conditions and r er	nufacture neasures	to reduce Soil er Risk f Preve	ulations. noplastics ce or limit d mission cont rom environa nt environa	lischarges, air e rols are not appl mental exposure ental discharge c	emissions icable as t is driven b consistent	and releases there is no directly wastewater trivith regulatory re	o soil t release reatment requirem	e to soil. t plant microl ents.	Des.,
6c: Ind Tech Soil Wate	lustrial use of monomers for ma nical onsite conditions and r er unts used: Regional use ton	nufacture neasures nage	to reduce Soil er Risk f Prev e 8500	ulations. noplastics ce or limit d nission cont rom env ironn nt env ironne tonnes/y ear	l ischarges, air e rols are not appl mental exposure ental discharge c	emissions icable as t is driven b consistent	and releases the second	o soil t release reatment equirem	to soil. t plant microl ents.	Des.,
6c: Indi Techi Soil Wate Amou	lustrial use of monomers for ma inical onsite conditions and r er unts used: Regional use ton	nufacture neasures nage	to reduce Soil er Risk f Preve 8500	ulations. noplastics ce or limit d nission cont rom env ironn nt env ironne tonnes/y ear l amount pe	lischarges, air e rols are not appl mental exposure ental discharge c r site: 9.520 ton	emissions icable as t is driven t consistent t nes/year	and releases there is no directly wastewater to vith regulatory r	o soil t release reatment requirem	to soil. t plant microl ents.	
6c: Ind Tech Soil Wate Amou Msafe Freq Cont	lustrial use of monomers for ma nical onsite conditions and r er unts used: Regional use ton e uency and duration of use: tinuous process:	neasures nage	to reduce sof therm Soil er Risk f Preve 8500 Annua 300 d	ulations. noplastics ce or limit d mission cont rom env ironme tonnes/y ear I amount pe lay s/y ear Co	lischarges, air e rols are not appl mental exposure ental discharge c r site: 9.520 ton pontinuous release	emissions icable as t is driven b consistent nes/y ear	and releases there is no directly wastewater to vith regulatory re	o soil t release reatment requirem	to soil. t plant microl ents.	Des.,
6c: Ind Tech Soil Wate Amou Msafe Freq Cont	lustrial use of monomers for ma nical onsite conditions and r er unts used: Regional use ton e uuency and duration of use: tinuous process: er given operational condition	neasures nage	to redu Soil er Risk f Preve 8500 Annua 300 d	ulations. noplastics ce or limit d mission cont rom env ironment tonnes/y ear I amount pe lay s/y ear Co onmental est	lischarges, air e rols are not appl mental exposure ental discharge c r site: 9.520 ton pottinuous release cposure	emissions icable as t is driven b consistent nes/y ear	and releases there is no directly wastewater the regulatory in the	o soil t release reatment requirem	to soil. t plant microl ents.	Des.,
6c: Ind Tech Soil Wate Amou Msafe Cont Type	lustrial use of monomers for ma nical onsite conditions and r er unts used: Regional use ton e uency and duration of use: tinuous process: er given operational condition	neasures nage	reg to reduct Soil er Risk f Preve 8500 Annua 300 d genvir ion days	ulations. noplastics ce or limit d mission cont rom environment tonnes/y ear l amount pe lay s/y ear Co onmental ex s	lischarges, air e rols are not appl mental exposure ental discharge c r site: 9.520 ton ontinuous release cposure Emission or r relevant com	emissions icable as t is driven b consistent nes/y ear elease fac solution	and releases there is no directly wastewater to the regulatory reg	o soil t release reatment requirem	e to soil. t plant microl ents.	Des.,
6c: Indi Techi Soil Wate Amou Msafe Conti Type Conti	Iustrial use of monomers for ma nical onsite conditions and r er unts used: Regional use ton e uency and duration of use: tinuous process: er given operational condition s:	neasures nage	reg of therm to reduce Soil er Risk f Preve 8500 Annua 300 d ng envir ion day:	ulations. noplastics ce or limit d mission cont rom env ironm tonnes/y ear l amount pe ay s/y ear Co onmental ex s	lischarges, air e rols are not appl mental exposure ental discharge c r site: 9.520 ton ontinuous release cposure Emission or r relevant com Air 0,001 %	emissions icable as t is driven b iconsistent nes/y ear nes/y ear ee ee ee ee ee sortments Soil 0 %	and releases there is no directly wastewater to the regulatory of	o soil t release reatment requirem	e to soil. t plant microl ents.	bes.,
Amou Amou Msafe Freq Cont Type Cont	Iustrial use of monomers for ma inical onsite conditions and r er unts used: Regional use ton e uuency and duration of use: tinuous process: er given operational condition e: inuous release ditions and measures related	nage nage s affectin Emissi 300 to seward	to reduce sof therm Soil er Risk f Preve 8500 Annua 300 d 300 d ng envir ion days	ulations. noplastics ce or limit d mission cont rom env ironment tonnes/y ear l amount pe lay s/y ear Co onmental ex s ment plant	lischarges, air e rols are not appl mental exposure ental discharge c r site: 9.520 ton pontinuous release cposure Emission or r relevant com Air 0,001 %	emissions icable as t is driven b consistent nes/year nes/year elease fac partments Soil 0 %	and releases there is no directly wastewater to the regulatory of	o soil t release reatment requirem	e to soil. t plant microl ents.	bes.,
Contect	Iustrial use of monomers for ma inical onsite conditions and r er unts used: Regional use ton e uuency and duration of use: tinuous process: er given operational condition e: inuous release ditions and measures related icipal Sewage Treatment Plar	nage	e treatment	ulations. noplastics ce or limit d mission cont rom env ironm tonnes/y ear l amount pe lay s/y ear Co onmental ex s ment plant	lischarges, air e rols are not appl mental exposure ental discharge c r site: 9.520 ton pontinuous release cposure Emission or r relevant com Air 0,001 %	emissions icable as t is driven b consistent nes/year nes/year elease fac partments Soil 0 %	and releases there is no directly wastewater the vith regulatory in the regulatory i	o soil t release reatment requirem	e to soil. t plant microl ents.	bes.,
Contect	Iustrial use of monomers for ma inical onsite conditions and r er unts used: Regional use ton e uuency and duration of use: tinuous process: er given operational condition e: inuous release ditions and measures related icipal Sewage Treatment Plar Discharge rate	nage nage saffectin Emissi 300 to sewage	e treatm	ulations. noplastics ce or limit d mission cont rom env ironment tonnes/y ear l amount pe lay s/y ear Co onmental ex s ment plant 2.000 m3/	lischarges, air e rols are not appl mental exposure ental discharge o r site: 9.520 ton pontinuous release cposure Emission or r relevant com Air 0,001 %	emissions icable as t is driven b consistent o nes/year nes/year elease fac partments Soil 0 %	and releases there is no directly wastewater the vith regulatory in the regulatory i	o soil t release reatment requirem	e to soil. t plant microl ents.	bes.,
Amou Amou Msafe Freq Conti Type Conti Total	Iustrial use of monomers for ma inical onsite conditions and r er unts used: Regional use ton e uuency and duration of use: tinuous process: r given operational condition e: inuous release ditions and measures related icipal Sewage Treatment Plar Discharge rate efficiency of removal from was	nage	e treatm	ulations. noplastics ce or limit d mission cont rom env ironm nt env ironment tonnes/y ear l amount pe lay s/y ear Co onmental ex s ment plant 2.000 m3/ re and off site	lischarges, air e rols are not appl mental exposure ental discharge o r site: 9.520 ton pontinuous release cposure Emission or r relevant com Air 0,001 %	emissions icable as t is driven b consistent o nes/y ear elease fac partments Soil 0 % ment plant	and releases there is no directly wastewater the vith regulatory regulatory regulatory regulatory to the the vith regulatory regulat	o soil t release reatment equirem R S 3 %	e to soil. t plant microl ents. emarks olid, low dus	
Amou Amou Amou Msafe Freq Cont Type Cont Cont Muni D Total	Iustrial use of monomers for ma nical onsite conditions and r er unts used: Regional use ton e unts used: Regional use ton re unts used: Regional use ton re unts used: Regional use ton re unts used: Regional use ton re unts used: Regional use ton re tinuous process: r given operational condition re inuous release ditions and measures related icipal Sewage Treatment Plar Discharge rate efficiency of removal from was ditions and measures related	nage nage saffectin Emissi 300 to sewage it: stewater af	to reduing the reduing to reduing the reduing th	ulations. noplastics ce or limit d mission cont rom env ironm tonnes/y ear l amount pe lay s/y ear Co onmental ex- s ment plant 2.000 m3/ re and off site ment of wasi	lischarges, air e rols are not appl mental exposure ental discharge c r site: 9.520 ton pottinuous release cposure Emission or r relevant com Air 0,001 %	emissions icable as t is driven b consistent v nes/y ear elease fac partments Soil 0 % ment plant	and releases there is no directly wastewater the vith regulatory in the regulatory i	o soil t release reatment requirem R S 3 %	e to soil. t plant microl ents.	bes.,
Amou Amou Msafe Freq Conti Type Conti Conti Total Conc Fract	Iustrial use of monomers for ma nical onsite conditions and r er unts used: Regional use ton tinuous process: er given operational condition e: inuous release ditions and measures related icipal Sewage Treatment Plar Discharge rate efficiency of removal from was ditions and measures related tion of used amount transfer	nage nage saffectin saffec	to reduce sof therm Soil er Risk f Preve 8500 Annua 300 d 300 d 300 d ag envir ion days te treatm fter onsit al treatm	ulations. noplastics ce or limit d mission cont rom environment tonnes/y ear l amount pe lay s/y ear Co onmental ex- s nent plant 2.000 m3/ re and off site ment of wasi ste treatment	lischarges, air e rols are not appl mental exposure ental discharge c r site: 9.520 ton pontinuous release cposure Emission or r relevant com Air 0,001 %	emissions icable as t is driven b consistent of nes/year release fac partments Soil 0 % ment plant	and releases there is no directly wastewater to the vith regulatory of the vith regulatory	o soil t release reatment requirem R S S 3 %	e to soil. t plant microl ents.	tiness
Conti Conti	lustrial use of monomers for ma nical onsite conditions and r er unts used: Regional use ton e uuency and duration of use: tinuous process: er given operational condition e: inuous release ditions and measures related icipal Sewage Treatment Plar Discharge rate efficiency of removal from was ditions and measures related tion of used amount transfer able waste treatment	nage nage saffectin Emissi 300 to sewage it: stewater af to externar red to externar	to reduce sof therm Soil er Risk f Preve 8500 Annua 300 d 300 d 300 d ag envir ion days fter onsit al treatm ernal wa	ulations. noplastics ce or limit d mission cont rom environment tonnes/y ear l amount pe lay s/y ear Co onmental ex- s ment plant 2.000 m3/ re and off site ment of wasi iste treatme atment effe	lischarges, air e rols are not appl mental exposure ental discharge c r site: 9.520 ton pontinuous release cposure Emission or r relevant com Air 0,001 % (d e (domestic treat te for disposal nt ctiveness	emissions icable as t is driven b consistent v nes/year release fac partments Soil 0 % ment plant	and releases to here is no directly y wastewater to vith regulatory of tors to the Water 1 % 0 RMMs (%):87, Remarks	o soil t release reatment requirem R S 3 %	e to soil. t plant microl ents. emarks olid, low dus	tiness
6c: Ind 6c: Ind Soil Wate Amou Msafe Freq Cont Type Cont Cont Type Cont Type Cont Exter Suita Exter Shoul	Iustrial use of monomers for ma inical onsite conditions and r er unts used: Regional use ton e uunts used: Regional use ton e uunts used: Regional use ton e uuncy and duration of use: tinuous process: er given operational condition e: inuous release ditions and measures related icipal Sewage Treatment Plar Discharge rate efficiency of removal from was ditions and measures related tion of used amount transfer able waste treatment rnal treatment and disposal of v ld comply with applicable local nal regulations.	nage nage ns affectin Emissi 300 to sewagu it: stewater affectin to externar red to externar vaste and/or	to reduce soil er Risk f Preve 8500 Annua 300 d 300 d 300 d ag envir ion day: e treatm fter onsit al treatmernal wa	ulations. noplastics ce or limit d mission cont rom env ironm tonnes/y ear l amount pe ay s/y ear Cc onmental er s nent plant 2.000 m3/ re and off site nent of wass iste treatme atment effe	lischarges, air e rols are not appl mental exposure ental discharge c r site: 9.520 ton ontinuous release cposure Emission or r relevant com Air 0,001 %	emissions icable as t is driven to onsistent v nes/y ear elease fac partments Soil 0 % ment plant	and releases there is no directly wastewater the vith regulatory regulatory regulatory regulatory regulators to the Water 1 %	o soil t release reatment requirem R S 3 %	e to soil. t plant microl ents. emarks olid, low dus	tiness

ERC6d: Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Versio 3.6 PRD	on Revision 06.10.202	Date: 0	SDS 1500 SDSE	Number: 00000146 U / EN / 0001	Date o Date o	f last iss f first iss	ue: 01.06.20 sue: 04.02.20	020 011	_	
Г	Technical onsite cond	itions and m	assures to	reduce or limit o	discharges aire	missions a	nd releases to s	oil	_	
-	Soil	intions and in	easures to	Soil emission controls are not applicable as there is no direct release to soil.						
	Water		F	Risk from environ Prevent environm	mental exposure ental discharge c	s driv en by onsistent wit	wastewater treat	ment plant microbes., iirements.		
	Amounts used: Regio	onal use tonn	age	8500 tonnes/year	-					
Γ	Msafe		ļ	Annual amount pe	er site: 9.520 ton	nes/year				
	Frequency and duratic Continuous process:	on of use:		300 days/year Co	ontinuous release					
_	Other given operation	al conditions	s affecting (environmental e	xposure Emission or r	elease facto	ors to the			
	Туре:		Emissior	n days	relevant comp Air	artments Soil	Water	Remarks		
	Continuous release		300		0,001 %	0 %	1 %	Solid, low dustiness		
Г	Conditions and measu	ures related t	o sewage t	reatment plant						
	Municipal Sewage Tre	atment Plant		Ι						
-	Discharge rate	walfrom wast	ewater afte	2.000 m3	/d e (domestic treati	nent plant) F	2MMs (%):87.3 %		_	
L	Total efficiency of territ	Warrion wast		ronsite and orrait	e (domestie treati	nont plant) i		J		
_	Conditions and measured amou	ures related to	o external t	treatment of was	te for disposal					
_	Suitable waste treatme	ent		Treatment effe	ectiveness		Remarks			
	External treatment and should comply with approximational regulations.	disposal of wa icable local a	aste nd/or							
Γ	Waste Recovery			External recover regulations.	ery and recy cling	of waste sh	ould comply with	applicable local and/or na	tional	
Sectio	n 3 Exposure estimati	on and refere	ence to its	source						
coone		on and refere			·				—	
3.1.He	alth:		When the exposure expected	e recommended ri s are not expecte to be less than 1.	sk management d to exceed the p	neasures (F redicted DN	RMMs) and opera ELs and the resu	itional conditions (OCs) ai ilting risk characterisation	re observed, ratios are	
PROC	1: Use in closed proces	s, no likelihood	d of exposu	ire General expo	osures (closed sy	stems), Con	tinuous process,	no sampling		
Г		Exposure	elevel	RCR	Method			Remarks		
	Inhalation	0,01 mg/r	n³	0,001	ECETOC TR	A worker v 3				
	Dermal	0,34 mg/k	(g/day	0,069	ECETOC TR	A worker v 3				
	combined routes			0,07	ECETOC TR	A worker v 3				
PROC with sa	2: Use in closed, contine ample collection	uous process	with occasi	onal controlled ex	posure <i>General</i>	exposures	(closed systems)	, Continuous process,		
Г		Exposure	elevel	RCR	Method			Remarks		
Γ	Inhalation	0,01 mg/r	n³	0,001	ECETOC TR	A worker v 3				
	Dermal	1,37 mg/k	(g/day	0,274	ECETOC TR	A worker v 3				
	combined routes			0,275	ECETOC TR	A worker v 3				
PROC	3: Use in closed batch p	process (synth	nesis or form	nulation) Process	s sampling					

	Exposure level	RCR	Method	Remarks
Inhalation	0,1 mg/m³	0,012	ECETOC TRA worker v3	
Dermal	0,34 mg/kg/day	0,069	ECETOC TRA worker v 3	
combined routes		0,081	ECETOC TRA worker v 3	

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises Bulk transfers, internal



according to Regulation (EC) No. 1907/2006

rsion S D	Revision D 06.10.2020	ate:	SDS I 15000 SDSEL	Number:)0000146 J / EN / 0001	Date of last is: Date of first is:	sue: 01.06.2020 sue: 04.02.2011	
			laval		Mathad		Domarka
Inhala	ation	0.5 mg/m ³	levei	0.06	ECETOC TRA worker v	3	Remarks
Derm	al	1.37 mg/k	d/dav	0.27	ECETOC TRA worker v	3	
comb	ined routes	.,	<i>yy</i>	0.33	ECETOC TRA worker v	3	
ROC5: Mix	king or blending in b	atch process	es for formu	lation of preparat	ions and articles (multistage	e and/ or significant con	tact) Mixing
	nooda oyotomb), Bat	Exposure			Method		Pemarks
Inhala	ation	0,5 mg/m ³	level	0,06	ECETOC TRA worker v	3	Rellarks
Derm	al	2.74 mg/k	a/dav	0.55	ECETOC TRA worker v	3	
comb	ined routes	_,g,	<i>yy</i>	0.61	ECETOC TRA worker v	3	
ROC8a: Tr aintenance	ansfer of substance	e or preparatio	n (charging	/ discharging) fro	om/ to vessels/ large contair	ners at non-dedicated fa	icilities Equipment
		Exposure	level	RCR	Method		Remarks
Inhala		0,5 mg/m ³		0,06	ECETOC TRA worker v	<u>კ</u>	<u> </u>
Derm	al	2,74 mg/k	g/day	0,55	ECETOC TRA worker v	3	<u> </u>
comb	ined routes			0,61	ECETOC TRA worker v	3]
ROC8b: Tr ansport	ansfer of substance	e or preparatio	on (charging	/ discharging) fro	om/ to v essels/ large contair	ners at dedicated facilitie	es Bulk transfers,
Inhala	ation	0.5 mg/m ³	level	0.06	ECETOC TRA worker v	3	Remarks
Derm	al	1.37 mg/k	d/dav	0.27	ECETOC TRA worker v 3		
comb	ined routes	.,or	,,	0.33			
ROC9: Tra	insfer of substance	or preparation	1 into small	containers (dedic	ated filling line, including we	eighing) Drum and sm	all package filling
		Exposure			Method		Pemarks
Inhala	ation	0,1 mg/m ³	level	0,01	ECETOC TRA worker v	3	Rellarks
Derm	al	1,37 mg/k	g/day	0,27	ECETOC TRA worker v	3	
	Dermai 1,37 mg/kg/				ECETOC TRA worker v3		
comb	ined routes			0,28	ECETOC TRA worker v	3	
Comb	se as laboratory rea	gent Labora	tory activiti	0,28 es, Pouring from	ECETOC TRA worker v	3	
Comb ROC15: U	ined routes se as laboratory rea	gent Labora	tory activiti	0,28 es, Pouring from	ECETOC TRA worker v	3	Remarks
Comb ROC15: U	ined routes se as laboratory rea ation	gent <i>Labora</i>	itory activiti level	0,28 es, Pouring from RCR 0,01	ECETOC TRA worker v small containers Method ECETOC TRA worker v	3	Remarks
Comb ROC15: U Inhala Derm	ined routes se as laboratory rea ation al	gent Labora Exposure 0,1 mg/m ³ 0,34 mg/k	itory activiti level 3/day	0,28 es, Pouring from RCR 0,01 0,07	ECETOC TRA worker v small containers Method ECETOC TRA worker v ECETOC TRA worker v	3	Remarks
Comb ROC15: U Inhala Derm Comb	ined routes se as laboratory rea ation al ined routes	gent Labora Exposure 0,1 mg/m ³ 0,34 mg/k	itory activiti level g/day	0,28 es, Pouring from 0,01 0,07 0,08	ECETOC TRA worker v small containers Method ECETOC TRA worker v ECETOC TRA worker v ECETOC TRA worker v	3 3 3 3 3	Remarks
Comb ROC15: U Inhala Derm Comb	ined routes se as laboratory rea ation al ined routes	gent Labora Exposure 0,1 mg/m ³ 0,34 mg/k	itory activiti level g/day	0,28 es, Pouring from RCR 0,01 0,07 0,08	ECETOC TRA worker v small containers Method ECETOC TRA worker v ECETOC TRA worker v ECETOC TRA worker v	3 3 3 3 3	Remarks
Comb ROC15: U Inhala Derm comb	ined routes se as laboratory rea ation al ined routes ment:	gent Labora Exposure 0,1 mg/m ³ 0,34 mg/k	Itory activiti	0,28 es, Pouring from 0,01 0,07 0,08 ES model. When observed, exposi- sation ratios are e	ECETOC TRA worker v small containers Method ECETOC TRA worker v ECETOC TRA worker v ECETOC TRA worker v ECETOC TRA worker v the recommended risk manuars are not expected to exercise the start 1.	3 3 3 3 agement measures (RI ceed the predicted PNE	Remarks MMs) and operational conditions Cs and the resulting risk
Comb ROC15: U Inhala Derm Comb	ined routes se as laboratory rea ation al ined routes ment: ufacture of substance	gent Labora Exposure 0,1 mg/m ³ 0,34 mg/k	level g/day Used EUS (OCs) are characteris	0,28 es, Pouring from RCR 0,01 0,07 0,08 ES model. When observed, exposi- sation ratios are e	ECETOC TRA worker v small containers Method ECETOC TRA worker v ECETOC TRA worker v ECETOC TRA worker v ECETOC TRA worker v the recommended risk manures are not expected to exist expected to be less than 1.	3 3 3 3 3 agement measures (RI ceed the predicted PNE	Remarks MMs) and operational conditions Cs and the resulting risk
Comb ROC15: U Inhala Derm comb 2.Environ RC1: Manu	ined routes se as laboratory rea ation al ined routes ment: ufacture of substance partment	gent Labora Exposure 0,1 mg/m ³ 0,34 mg/k 0,34 mg/k Ees PEC	level g/day Used EUS (OCs) are characteris	0,28 ies, Pouring from 0,01 0,07 0,08 ES model. When observed, exposi sation ratios are e Risk characteri (PEC/PNEC):	ECETOC TRA worker v small containers Method ECETOC TRA worker v ECETOC TRA worker v ECETOC TRA worker v ECETOC TRA worker v ECETOC TRA worker v sected to be less than 1.	3 3 3 3 3 agement measures (Ri ceed the predicted PNE) Method	Remarks MMs) and operational conditions Cs and the resulting risk Remarks
Comb ROC15: U Inhala Derm comb 2.Environ RC1: Manu RC1: Manu Wate	ined routes se as laboratory rea ation al ined routes ment: ufacture of substance partment r	gent Labora Exposure 0,1 mg/m ³ 0,34 mg/k 0,34 mg/k Exposure 0,1 mg/m ³ 0,34 mg/k 1,99 mg/l	Itory activit	0,28 ies, Pouring from RCR 0,01 0,07 0,08 ES model. When observed, exposi- sation ratios are e Risk characteri (PEC/PNEC):	ECETOC TRA worker v small containers Method ECETOC TRA worker v ECETOC TRA worker v sthe recommended risk manures are not expected to execute expected to be less than 1.	3 3 3 3 3 3 3 magement measures (Rill ceed the predicted PNE) Method EUSES	Remarks MMs) and operational conditions Cs and the resulting risk Remarks
Comb ROC15: U Inhala Derm comb 2.Environ RC1: Manu Wate Marin	ined routes se as laboratory rea ation al ined routes ment: ufacture of substanc partment r e water	gent Labora Exposure 0,1 mg/m ³ 0,34 mg/k 0,34 mg/k Exes PEC 1,99 mg/l 0,199 mg/l	Iteria activiti Ievel g/day Used EUS (OCs) are characteris	0,28 ies, Pouring from RCR 0,01 0,07 0,08 ES model. When observed, exposi- sation ratios are e Risk characteri (PEC/PNEC):	ECETOC TRA worker v small containers Method ECETOC TRA worker v ECETOC TRA worker v ECETOC TRA worker v ECETOC TRA worker v the recommended risk manures are not expected to execute to be less than 1. sation ratio 0,399 0,399	3 3 3 3 3 3 Magement measures (RM ceed the predicted PNE) Method EUSES EUSES	Remarks MMs) and operational conditions Cs and the resulting risk Remarks



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Version 3.6 PRD	Revision Date: 06.10.2020	SDS Number: 150000000146 SDSEU / EN / 0001	Date of last issue: 01.06.2020 Date of first issue: 04.02.2011

Marine sediment	0,16 mg/kg wwt	0,399	EUSES	
Soil	0,0351 mg/kg wwt	0,052	EUSES	
Sewage Treatment Plant	19,9 mg/l	0,997	EUSES	

ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates)

Compartment	PEC	Risk characterisation ratio (PEC/PNEC):	Method	Remarks
Water	1,99 mg/l	0,399	EUSES	
Marine water	0,199 mg/l	0,399	EUSES	
Freshwater sediment	1,6 mg/kg wwt	0,399	EUSES	
Marine sediment	0,16 mg/kg wwt	0,399	EUSES	
Soil	0,035 mg/kg wwt	0,52	EUSES	
Sewage Treatment Plant	19,9 mg/l	0,997	EUSES	

ERC6c: Industrial use of monomers for manufacture of thermoplastics

Compartment	PEC	Risk characterisation ratio (PEC/PNEC):	Method	Remarks
Water	1,99 mg/l	0,399	EUSES	
Marine water	0,199 mg/l	0,399	EUSES	
Freshwater sediment	1,6 mg/kg wwt	0,399	EUSES	
Marine sediment	0,16 mg/kg wwt	0,399	EUSES	
Soil	0,035 mg/kg wwt	0,052	EUSES	
Sewage Treatment Plant	19,9 mg/l	0,997	EUSES	

ERC6d: Industrial use of process regulators for poly merisation processes in production of resins, rubbers, poly mers

Compartment	PEC	Risk characterisation ratio (PEC/PNEC):	Method	Remarks
Water	1,99 mg/l	0,399	EUSES	
Marine water	0,199 mg/l	0,399	EUSES	
Freshwater sediment	1,6 mg/kg wwt	0,399	EUSES	
Marine sediment	0,16 mg/kg wwt	0,399	EUSES	
Soil	0,035 mg/kg wwt	0,052	EUSES	
Sewage Treatment Plant	19,9 mg/l	0,997	EUSES	

Section 4 Guidance to check compliance with the exposure scenario

4.1Health	Confirm that RMMs and OCs are as described or of equivalent efficiency			
4.2. Environment Further details on scaling and control technologies are provided in SPERC factsheet.ries -library				
Scaling: The downstream user can check the compliance of his site by comparing site specific data with defaults used in the exposure assessment. The specific quotient should be inferior or equal to the spERC quotient.				
$\frac{\mathrm{m}_{\mathrm{spERC}}*(1-\mathrm{E}_{\mathrm{er},\mathrm{sp}})}{\mathrm{DF}_{\mathrm{sp}}}$	$\sum_{\text{DERC}} F_{\text{release,spERC}} \ge \frac{m_{\text{site}} * (1 - E_{\text{ER,site}}) * F_{\text{release,site}}}{DF_{\text{site}}}$			
mspERC: Substance use rate in spERC EER, spERC: Efficacy of RMM in spERC Frelease spERC: Initial release fraction in spERC DFspERC: dilution factor of STP effluent in river				

21 / 43



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Version	Revision Date:	SDS Number:	Date of last issue: 01.06.2020
3.6 PRD	06.10.2020	150000000146 SDSEU / EN / 0001	Date of first issue: 04.02.2011

msite: Substance use rate at site EER,site: Efficacy of RMM at site Frelease site: Initial release fraction at site DFsite: dilution factor of STP effluent in riv er



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Version	Revision Date:	SDS Number:	Date of last issue: 01.06.2020
3.6 PRD	06.10.2020	150000000146 SDSEU / EN / 0001	Date of first issue: 04.02.2011

Exposure scenario II. Distribution of substance

Sector(s) of use	SU8: Manufacture of bulk, large scale chemicals (including petroleum products) SU9: Manufacture of fine chemicals SU10: Formulation [mixing] of preparations and/or re-packaging
List of names of contributing worker scenarios and corresponding PROCs	PROC1. PROC2. PROC3. PROC5. PROC8a. PROC8b. PROC9. PROC15.
Name of contributing environmental scenario and corresponding ERC	ERC2
Section 2: Control of Exposure	
Physical form of product:	d

Physical form of product:	solid
Vapour pressure:	0,00024 hPa
Process Temperature:	25 °C
Remarks	Not relev ant
Concentration of the Substance in Mixture/Article	Covers the percentage of the substance in the product up to 100 $\%$ (unless stated differently).

2.1. Control of Human Exposure

Other conditions affecting workers exposure						
Area of use	Room size	Temperature	Ventilation rate	Remarks		
Covers indoor and outdoor use.	20 m3	25 °C		Solid, low dustiness		

Frequency and duration of use	Duration	Frequency of use	Remarks
Exposure time	480 min	5 day s/week	

Name of contributing exposure scenario	Risk Management Measures
General exposures (closed systems), Continuous process, no sampling:	No other specific measures identified.
General exposures (closed systems), Continuous process, with sample collection:	No other specific measures identified.
Process sampling:	No other specific measures identified.
Mixing operations (closed systems), Batch process:	Use suitable eye protection and gloves.
Equipment maintenance:	Use suitable eye protection and gloves.
Bulk transfers, transport:	Use suitable eye protection and gloves.
Drum and small package filling:	Use suitable eye protection and gloves.
Laboratory activities, Pouring from small containers:	No other specific measures identified.

2.2.Control of environmental exposure	
Risk Management Measures	Note: Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Dermal

combined routes



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Versi 3.6 PRD	on	Revision D 06.10.2020	ate:	SD: 150 SDS	S Nun 100000 EU / E	nber: 00146 N / 0001	Da Da	ate of last ate of first	issue: issue	: 01.06.2 : 04.02.2	2020 2011		-
Techr preve	nical meas ent release	sures at proces	s level (sou	rce) to	F	For further s	pecificatio	n, refer to sec	ction 8 of	the SDS.			
Organ releas	nizational se from th	measures to pr e site	event/limit		None								
Envir	onment fa	actors not influe	enced by ris	sk manag	ement 18.000) m3/d							7
	freehwat	er dilution facto	r		10								_
Local	marine w	ater dilution fac	ctor		100								-
ERC2	: Formula	tion of preparatio	ons										
	Technic Soil	al onsite condit	ions and m	easures	to reduc Soil en	ce or limit d nission cont	lischarges rols are no	s, air emissio t applicable a:	ons and r s there is	eleases to s no direct r	soil elease	to soil.	
	Water				Risk fi Prevei	rom env ironi nt env ironme	mental exp ental disch	osure is drive arge consiste	n by was nt with re	tewater trea gulatory ree	atment quireme	plant microbes., ents.	
Г	Amount	susod: Pogion	al uso tonn	200	8500 t	tonnes/vear							7
-	Amounts	s used: Fractio used locally	n of region	al	2,2								
[Msafe				Annua	I amount pe	r site: 18.	870 tonnes/y e	ear				
	Frequer Continu	cy and duration ous process:	n of use:		300 d	ay s/y ear Co	ontinuous r	elease					7
	Other gi	ven operational	conditions	s affectin	g enviro	onmental ex	cposure						
	Туре:			Emissi	on days	6	Emissio relevant Air	on or release compartmer Soil	factors f nts	to the Water	Re	emarks	
	Continuc	us release		300		0 % 0 % 0,5 % EFCC spERC 2.10				FCC spERC 2.1c.v1			
Γ	Conditio	ons and measur	es related to	o sewage	treatm	ent plant							
F	Municip	al sewage treatr	nent plant:										-
F	Disc	harge rate				2.000 m3/	′d						-
Ē	Total eff	iciency of remova	alfrom wast	ewater af	ter onsit	e and off site	e (domestio	c treatment pla	ant) RMM	ls (%):87,3	%		
ĺ	Conditio	ons and measur	es related to	o externa	al treatm rnal wa	nent of was	te for disp	osal					
F	Suitable	waste treatmen	t		Tre	atment effe	ctiveness		Rem	arks			
	External should c national	treatment and dia omply with applic regulations.	sposal of wa able local ai	aste nd/or									
	Waste Recovery External recovery and recycling of waste should comply with applicable local and/or national regulations.						tional						
Sectio	on 3. Exp	osure estimatio	n and refere	ence to it	s sourc	e							
3.1.He	ealth:			When t exposu expecte	he reco res are ed to be	mmended ris not expected less than 1.	sk manage d to excee	ment measure d the predicted	es (RMM d DNELs	ls) and ope and the re	erational sulting	l conditions (OCs) al risk characterisation	e observed, ratios are
PROC	C1: Use in	closed process,	no likelihood	d of expo	sure G	eneral expo	sures (clos	sed systems),	Continuc	ous process	s, no sa	ampling	
Г			Exposure	elevel		RCR	Metho	d				Remarks	
ŀ	Inhalatio	n	0.01 ma/r	n ³		0.001	ECETO	C TRA worke	erv3				

PROC2: Use in closed, continuous process with occasional controlled exposure General exposures (closed systems), Continuous process,

ECETOC TRA worker v3

ECETOC TRA worker v3

0,069

0,07

0,34 mg/kg/day



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Version	Revision Date:	SDS Number:	Date of last issue: 01.06.2020
3.6 PRD	06.10.2020	SDSEU / EN / 0001	Date of first issue: 04.02.2011

with sample collection

	Exposure level	RCR	Method	Remarks
Inhalation	0,01 mg/m ³	0,001	ECETOC TRA worker v 3	
Dermal	1,37 mg/kg/day	0,274	ECETOC TRA worker v 3	
combined routes		0,275	ECETOC TRA worker v3	

PROC3: Use in closed batch process (synthesis or formulation) Process sampling

	Exposure level	RCR	Method	Remarks
Inhalation	0,1 mg/m ³	0,012	ECETOC TRA worker v3	
Dermal	0,34 mg/kg/day	0,069	ECETOC TRA worker v3	
combined routes		0,081	ECETOC TRA worker v 3	

PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact) Mixing operations (closed systems), Batch process

	Exposure level	RCR	Method	Remarks
Inhalation	0,5 mg/m³	0,06	ECETOC TRA worker v3	
Dermal	2,74 mg/kg/day	0,55	ECETOC TRA worker v 3	
combined routes		0,61	ECETOC TRA worker v 3	

PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities Equipment maintenance

	Exposure level	RCR	Method	Remarks
Inhalation	0,5 mg/m³	0,06	ECETOC TRA worker v3	
Dermal	2,74 mg/kg/day	0,55	ECETOC TRA worker v3	
combined routes		0,61	ECETOC TRA worker v3	

PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities Bulk transfers, transport

	Exposure level	RCR	Method	Remarks
Inhalation	0,5 mg/m³	0,06	ECETOC TRA worker v 3	
Dermal	1,37 mg/kg/day	0,27	ECETOC TRA worker v3	
combined routes		0,33	ECETOC TRA worker v 3	

PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) Drum and small package filling

	Exposure level	RCR	Method	Remarks
Inhalation	0,1 mg/m³	0,01	ECETOC TRA worker v 3	
Dermal	1,37 mg/kg/day	0,27	ECETOC TRA worker v3	
combined routes		0,28	ECETOC TRA worker v3	

PROC15: Use as laboratory reagent Laboratory activities, Pouring from small containers

	Exposure level	RCR	Method	Remarks
Inhalation	0,1 mg/m³	0,01	ECETOC TRA worker v3	
Dermal	0,34 mg/kg/day	0,07	ECETOC TRA worker v3	
combined routes		0,08	ECETOC TRA worker v3	

3.2.Environment:	Used EUSES model. When the recommended risk management measures (RMMs) and operational conditions (OCs) are observed, exposures are not expected to exceed the predicted PNECs and the resulting risk characterisation ratios are expected to be less than 1.
------------------	---



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Version	Revision Date:	SDS Number:	Date of last issue: 01.06.2020
3.6 PRD	06.10.2020	150000000146 SDSEU / EN / 0001	Date of first issue: 04.02.2011

ERC2: Formulation of preparations

Compartment	PEC	Risk characterisation ratio (PEC/PNEC):	Method	Remarks
Water	1,99 mg/l	0,398	EUSES	
Marine water	0,199 mg/l	0,398	EUSES	
Freshwater sediment	1,6 mg/kg wwt	0,398	EUSES	
Marine sediment	0,16 mg/kg wwt	0,398	EUSES	
Soil	0,035 mg/kg wwt	0,052	EUSES	
Sewage Treatment Plant	19,9 mg/l	0,995	EUSES	

Section 4 Guidance to check compliance with the exposure scenario

4.1Health	Confirm that RMMs and OCs are as described or of equivalent efficiency					
4.2. Environment Further details on scaling and control technologies are provided in SPERC factsheet.ries-libraries.htm						
Scaling: The downstream user can check the compliance of his site by comparing site specific data with defaults used in the exposure assessment. The site specific quotient should be inferior or equal to the spERC quotient.						
$\frac{m_{spERC} * (1 - E_{ER,sp}}{DF_{sp}}$ mspERC: Substance use rate in spERC EER,spERC: Efficacy of RMM in spERC Frelease spERC: Initial release fraction in spERC DFspERC: dilution factor of STP effluent in riv er msite: Substance use rate at site EER,site: Efficacy of RMM at site Frelease site: Initial release fraction at site DFsite: dilution factor of STP effluent in riv er	$\frac{1}{D_{ERC}} + \frac{1}{F_{release,spERC}} \ge \frac{m_{site} * (1 - E_{ER,site}) * F_{release,site}}{DF_{site}}$					



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Version	Revision Date:	SDS Number:	Date of last issue: 01.06.2020
3.6 PRD	06.10.2020	150000000146 SDSEU / EN / 0001	Date of first issue: 04.02.2011

Exposure scenario III. Formulation & (re)packing of substances and mixtures

Section 1: Exposure scenario	
Sector(s) of use	SU10: Formulation [mixing] of preparations and/or re-packaging
List of names of contributing worker scenarios ar corresponding PROCs	nd PROC1. PROC2. PROC3. PROC4. PROC5. PROC8a. PROC8b. PROC9. PROC15.
Name of contributing environmental scenario and corresponding ERC	d ERC2
Section 2: Control of Exposure	
Physical form of product:	solid
Vapour pressure:	0,00024 hPa
Process Temperature:	25 °C
Remarks	Not relev ant
Concentration of the Substance in Mixture/Article	Covers the percentage of the substance in the product up to 100 % (unless stated differently).

2.1. Control of Human Exposure

Other conditions affecting workers exposure								
Area of use	Room size	Temperature	Ventilation rate	Remarks				
Covers indoor and outdoor use.	20 m3	25 °C		Solid, low dustiness				

Frequency and duration of use	Duration	Frequency of use	Remarks		
Exposure time	480 min	5 day s/week			
Name of contributing exposu	re scenario		Risk Management Measures		
General exposures (closed systems process, no sampling:	s), Continuous	No other specific measures id	entified.		
General exposures (closed systems process, with sample collection:	s), Continuous	No other specific measures identified.			
Process sampling:		No other specific measures id	entified.		
Bulk transfers, internal:		Use suitable eye protection an	d gloves.		
Mixing operations (closed systems)	, Batch process:	Use suitable eye protection an	d gloves.		
Equipment maintenance:		Use suitable eye protection an	d gloves.		
Material transfers, transport:		Use suitable eye protection an	d glov es.		
Drum and small package filling:		Use suitable eye protection an	d glov es.		
Laboratory activities, Pouring from	small containers:	No other specific measures id	entified.		

2.2.Control of environmental exposure	
Risk Management Measures	Note: Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Dermal

combined routes



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Versi 3.6 PRD	on	Revision D 06.10.2020	ate:	SDS 1500 SDSE	S Num 20000 EU / Ef	nber: 00146 N / 0001	Date Date	of last is of first is	sue: 01.06.2 sue: 04.02.2	020 011		
Techi preve	nical mea ent release	sures at proces	s level (sou	rce) to	F	or further s	pecification, re	efertosectio	n 8 of the SDS.			
Orga relea	nizationa se from tł	l measures to pr le site	event/limit		None]
Envir	onment f	actors not influe	enced by ris	k manage	ement]
Flow	rate of re	ceiving surface	water		18.000	m3/d						_
Loca	freshwat	er dilution facto	r		10							-
Loca	l marine v	ater dilution fac	tor		100							
ERC2	2: Formula	ation of preparation	ons]
	Technic	al onsite condit	ions and me	easures to	o reduc	e or limit d	ischarges, ai	r emissions	and releases to s	soil	ooil]
	Soll				Soll en		nois are not ap		wastewater treat	tment pla	soll.	-
	water				Preven	nt environme	ental discharge	consistent	with regulatory requ	uirements	s.	
	Amount	s used: Region	al use tonn	age	8500 t	onnes/y ear						1
	Amount tonnage	s used: Fractio used locally	n of regiona	al	2,2]		
	Msafe				Annual amount per site: 18.870 tonnes/year]		
	Frequency and duration of use:				300 day s/y ear Continuous release]		
	Other g	ven operational	conditions	affecting	, enviro	onmental ex	posure					
	Туре:			Emissio	on days		Emission of relevant cor	r release fac npartments	tors to the	Rema	arks	
	Continuo	ous release		300	0 % 0 % 0,5 % EFCC spERC 2.1c			C spERC 2.1c.v1				
	Conditi	ons and measur	es related to	o sewage	treatm	ent plant						1
	Municip	al sewage treatr	nent plant:									1
	Dise	charge rate				2.000 m3/	d					
	Total eff	iciency of remova	al from waste	ewater af te	eronsite	e and offsite	e (domestic tre	atment plant) RMMs (%):87,3 %	6]
	Conditi	ons and measur	es related to	external	treatm	ent of wast	e for disposa	al				1
	Fraction	n of used amoun	t transferre	d to exter	nal was	ste treatme	nt					<u>.</u>
	External should o	treatment and dia omply with applic	t sposal of wa	ste od/or	Trea	atment effe	ctiveness		Remarks			
	national	regulations.										
	Waste F	ecovery			Exte regu	ernal recove Ilations.	ry and recy cli	ng of waste s	hould comply with	applicab	le local and/or natio	onal
Section	on 3. Exp	osure estimatio	n and refere	nce to its	sourc	e						I
3.1.He	ealth:			When th exposure expected	ne recor res are r d to be	mmended ris not expected less than 1.	sk management I to exceed the	e measures e predicted D	(RMMs) and opera NELs and the res	ational co ulting risł	onditions (OCs) are c characterisation ra	observed, atios are
PROC	C1: Use in	closed process,	no likelihood	l of expos	ure G	eneral expo	sures (closed	systems), Co	ntinuous process,	no samp	ling]
			Eve	lovel		BCB	Motherd				Pomorko	
	Inhalatio	n	0,01 ma/m	1 ³		0,001	ECETOC 1	RA worker v	3			
			, o, o	-					-			

PROC2: Use in closed, continuous process with occasional controlled exposure General exposures (closed systems), Continuous process,

ECETOC TRA worker v3

ECETOC TRA worker v3

0,069

0,07

0,34 mg/kg/day



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

VersionRevision Date:SDS Number:Date of last issue: 01.06.2023.606.10.2020150000000146 SDSEU / EN / 0001Date of first issue: 04.02.201	20 11
---	----------

with sample collection

	Exposure level	RCR	Method	Remarks
Inhalation	0,01 mg/m ³	0,001	ECETOC TRA worker v 3	
Dermal	1,37 mg/kg/day	0,274	ECETOC TRA worker v3	
combined routes		0,275	ECETOC TRA worker v 3	

PROC3: Use in closed batch process (synthesis or formulation) Process sampling

	Exposure level	RCR	Method	Remarks
Inhalation	0,1 mg/m ³	0,012	ECETOC TRA worker v3	
Dermal	0,34 mg/kg/day	0,069	ECETOC TRA worker v3	
combined routes		0,081	ECETOC TRA worker v 3	

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises Bulk transfers, internal

	Exposure level	RCR	Method	Remarks
Inhalation	0,5 mg/m³	0,06	ECETOC TRA worker v 3	
Dermal	1,37 mg/kg/day	0,27	ECETOC TRA worker v 3	
combined routes		0,33	ECETOC TRA worker v 3	

PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact) Mixing operations (closed systems), Batch process

	Exposure level	RCR	Method	Remarks
Inhalation	0,5 mg/m³	0,06	ECETOC TRA worker v3	
Dermal	2,74 mg/kg/day	0,55	ECETOC TRA worker v 3	
combined routes		0,61	ECETOC TRA worker v 3	

PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities Equipment maintenance

	Exposure level	RCR	Method	Remarks
Inhalation	0,5 mg/m³	0,06	ECETOC TRA worker v3	
Dermal	2,74 mg/kg/day	0,55	ECETOC TRA worker v3	
combined routes		0,61	ECETOC TRA worker v 3	

PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities Material transfers, transport

	Exposure level	RCR	Method	Remarks
Inhalation	0,5 mg/m³	0,06	ECETOC TRA worker v3	
Dermal	1,37 mg/kg/day	0,27	ECETOC TRA worker v3	
combined routes		0,33	ECETOC TRA worker v3	

PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) Drum and small package filling

	Exposure level	RCR	Method	Remarks
Inhalation	0,1 mg/m³	0,01	ECETOC TRA worker v 3	
Dermal	1,37 mg/kg/day	0,27	ECETOC TRA worker v 3	
combined routes		0,28	ECETOC TRA worker v3	

PROC15: Use as laboratory reagent Laboratory activities, Pouring from small containers

	Exposure level	RCR	Method	Remarks
Inhalation	0,1 mg/m ³	0,01	ECETOC TRA worker v 3	



according to Regulation (EC) No. 1907/2006

Versi 3.6 PRD	on Revision D 06.10.2020	ate: SD 150 SDS	S Num 00000 EU / El	nber:)0146 N / 0001	Date of last is Date of first is	ssue: 01.06.2020 ssue: 04.02.2011	
	Dermal	0.34 mg/kg/day		0.07	ECETOC TRA worker	v3	
	combined routes	0,04 mg/kg/day		0.08	ECETOC TRA worker	v3	
	combined routes			0,00		• •	
3.2.E	nvironment:	Used E (OCs) a charac	USES n are obse erisatior	rodel. When rved, exposi n ratios are e	the recommended risk ma ires are not expected to e xpected to be less than 1	anagement measures (R xceed the predicted PNE	MMs) and operational conditions Cs and the resulting risk
ERC2	2: Formulation of preparati	ons					
	Compartment	PEC	Ris (PE	k characteri C/PNEC):	sation ratio	Method	Remarks
	Water	1,99 mg/l			0,398	EUSES	
	Marine water	0,199 mg/l			0,398	EUSES	
	Freshwater sediment	1,6 mg/kg wwt			0,398	EUSES	
	Marine sediment	0,16 mg/kg wwt			0,398	EUSES	
	Soil	0,035 mg/kg wwt			0,052	EUSES	
	Sewage Treatment Plant	19,9 mg/l			0,995	EUSES	
Secti	on 4 Guidance to check	compliance with the	exposu	re scenario			
4.1He	alth		C	Confirm that I	RMMs and OCs are as desc	ribed or of equivalent efficie	ncy
4.2. E	nvironment		F	Further detail	s on scaling and control tec	hnologies are provided in Si	PERC factsheet.ries -libraries.html).
Scali speci	ng: The downstream user fic quotient should be infer	can check the compli ior or equal to the spE	ance of I RC quot	his site by co ient.	omparing site specific data	a with defaults used in the	exposure assessment. The site
		$m_{_{spERC}}*(1-E)$	ER, spER	$(F_{relea}) * F_{relea}$	$\frac{\text{se,spERC}}{\text{sete}} > \frac{m_{\text{site}} * (1)}{1}$	$-E_{\rm ER,site}) * F_{\rm release,s}$	ite
]	OF _{sper}	ĸĊ	-	$\mathrm{DF}_{\mathrm{site}}$	
mspE EER, Frelea DFsp msite EER, Frelea DFsit	RC: Substance use rate in spERC: Efficacy of RMM ir ase spERC: Initial release ERC: dilution factor of STF : Substance use rate at situ site: Efficacy of RMM at sit ase site: Initial release fr e: dilution factor of STP eff	spERC o spERC e f raction in spERC e ff luent in river e action at site luent in river					



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Version	Revision Date:	SDS Number:	Date of last issue: 01.06.2020
3.6 PRD	06.10.2020	150000000146 SDSEU / EN / 0001	Date of first issue: 04.02.2011

Exposure scenario IV. Use of a construction chemical., Industrial use

Section 1: Exposure scenario	
Sector(s) of use	SU3: Industrial Manuf acturing (all)
	SU 19: Building and construction work
List of names of contributing worker scenarios ar corresponding PROCs	nd PROC10. PROC13. PROC14.
Name of contributing environmental scenario and corresponding ERC	ERC5
Section 2: Control of Exposure	
Physical form of product:	solid

· · · · · · · · · · · · · · · · · · ·	
Vapour pressure:	0,00024 hPa
Process Temperature:	25 °C
Remarks	Not relevant
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 10 %.

2.1. Control of Human Exposure

Pelletizing:

Other conditions affecting workers exposure					
Area of use	Room size	Temperature	Ventilation rate	Remarks	
Covers indoor and outdoor use.	20 m3	25 °C		Solid, high dustiness	

Frequency and duration of use	Duration	Frequency of use	Remarks	
Exposure time	480 min	5 day s/week		
Name of contributing exposure scenario			Risk Management Measures	
Roller, spreader, flow application:		No other specific measures identified.		
Dipping, immersion and pouring:		No other specific measures identif	ied.	

No other specific measures identified.

2.2.Control of environmental exposure				
Risk Management Measures	Note: Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.			
Technical measures at process level (source) to prevent release	For further specification, refer to section 8 of the SDS.			
Organizational measures to prevent/limit release from the site	None			
	·			
Environment factors not influenced by risk manage	gement			
Flow rate of receiving surface water	18.000 m3/d			
Local freshwater dilution factor	10			
Local marine water dilution factor	100			



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Version	Revision Date:	SDS Number:	Date of last issue: 01.06.2020
3.6 PRD	06.10.2020	150000000146 SDSEU / EN / 0001	Date of first issue: 04.02.2011

ERC5: Industrial use resulting in inclusion into or onto a matrix

Soil Soil emission controls are not applicable as there is no direct release to soil.							
Wator	later Risk from e			e is driven h	y humans via indi	rect exposure (primarily	1
Water		ingestion)., Preve	nt env ironmenta	al discharge	consistent with re	gulatory requirements.	
Amounts used: Regional use	tonnage	8500 toppes/v.ea	r				- 7
Anounts used. Regional use	·	7 5					-
Amounts used: Fraction of re tonnage used locally	egionai	7,5					
Msafe		Annual amount pe	er site: 63.750 t	ionnes/y ear			
Frequency and duration of us Continuous process:	se:	300 days/year C	ontinuous releas	se]
Other given operational cond	litions affecting	g environmental e	xposure				
Type:	Emissi	on days	Emission or relevant con	release fao npartments	ctors to the	Remarks	
			Air	Soil	Water		
Continuous release	300		0,017 %	0 %	0 %	EFCC spERC 5.1a.v1	
Conditions and measures rel	ated to sewage	treatment plant					٦
Municipal Sewage Treatment	Plant:						-
Discharge rate		2.000 m3	/d				
Total efficiency of removal from	n wastewater af	ter onsite and off sit	e (domestic trea	atment plant	:) RMMs (%):87,3 °	%	1
Conditions and measures rel	ated to externa	I treatment of was	te for disposa	I			
Fraction of used amount tran Suitable waste treatment	sferred to exte	rnal waste treatme Treatment effe	ent ectiveness		Remarks		
External treatment and disposa should comply with applicable lo national regulations.	l of waste ocal and/or						
Waste Recovery		External recov regulations.	ery and recy clir	ng of wastes	should comply with	applicable local and/or nati	onal

exposures are not expected to exceed the predicted DNELs and the resulting risk characterisation ratios are expected to be less than 1.

PROC10: Roller application or brushing Roller, spreader, flow application

	Exposure level	RCR	Method	Remarks
Inhalation	1 mg/m ³	0,12	ECETOC TRA worker v 3	
Dermal	2,74 mg/kg/day	0,55	ECETOC TRA worker v 3	
combined routes		0,67	ECETOC TRA worker v3	

PROC13: Treatment of articles by dipping and pouring Dipping, immersion and pouring

	Exposure level	RCR	Method	Remarks
Inhalation	0,5 mg/m³	0,06	ECETOC TRA worker v 3	
Dermal	1,37 mg/kg/day	0,27	ECETOC TRA worker v 3	
combined routes		0,33	ECETOC TRA worker v 3	

PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelletisation Pelletizing

	Exposure level	RCR	Method	Remarks
Inhalation	1 mg/m ³	0,12	ECETOC TRA worker v3	
Dermal	0,34 mg/kg/day	0,07	ECETOC TRA worker v 3	



according to Regulation (EC) No. 1907/2006

Versior 3.6 PRD	n Revision Da 06.10.2020	ate: SDS 15000 SDSEU	SDS Number: Date of last issue: 01.06.2020 150000000146 Date of first issue: 04.02.2011 SDSEU / EN / 0001 Date of first issue: 04.02.2011					
С	combined routes		0,18	ECETOC TRA worker	v3			
3.2.Env	ironment:	Used EUS (OCs) are characteri	ES model. When observed, exposu sation ratios are e	the recommended risk m rres are not expected to e xpected to be less than a	naagement measures (RM exceed the predicted PNEC 1.	IMs) and operational conditions Cs and the resulting risk		
			Rick characteri	sation ratio	Mothod	Pomarka		
	Sompartment	FEC	(PEC/PNEC):	SationTatio	Method	Relliarks		
v	Water	0,0007 mg/l		0,0001	EUSES			
Ν	Marine water	0,00006 mg/l		0,0001	EUSES			
F	reshwater sediment	0,0005 mg/kg wwt		0,0001	EUSES			
Ν	Marine sediment	0,00005 mg/kg wwt		0,0001	EUSES			
S	Soil	0,001 mg/kg wwt		0,002	EUSES			
S	Sewage Treatment Plant	0 mg/l		0	EUSES			
Section 4.1Heal	4 Guidance to check c th vironment	ompliance with the ex	posure scenario Confirm that Further detail	RMMs and OCs are as desc son scaling and control tee	ribed or of equivalent efficien chnologies are provided in SF	ncy PERC factsheet.ries-libraries.html).		
Scaling specific	: The downstream user of quotient should be inferio	can check the compliand or or equal to the spERC	ce of his site by co quotient.	omparing site specific dat	a with defaults used in the	exposure assessment. The site		
	$m_{spERC} * (1 - E_{ER,spERC}) * F_{release,spERC} = m_{site} * (1 - E_{ER,site}) * F_{release,site}$							
	$DF_{spERC} \ge DF_{site}$							
mspER(EER,spl Frelease DFspER msite: S EER,site Frelease DFsite: c	C: Substance use rate in s ERC: Efficacy of RMM in e spERC: Initial release RC: dilution factor of STP diubstance use rate at site e: Efficacy of RMM at site e site: Initial release fra dilution factor of STP effl	spERC spERC fraction in spERC eff luent in riv er ction at site uent in riv er	-					



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Version	Revision Date:	SDS Number:	Date of last issue: 01.06.2020
3.6 PRD	06.10.2020	150000000146 SDSEU / EN / 0001	Date of first issue: 04.02.2011

Exposure scenario V. Use of a construction chemical., Professional use

Section 1: Exposure scenario	
Sector(s) of use	SU22: Public domain (administration, education, entertainment, services, craftsmen)
List of names of contributing worker scenarios a corresponding PROCs	nd PROC10. PROC11. PROC13. PROC19.
Name of contributing environmental scenario and corresponding ERC	d ERC8c ERC8t
Section 2: Control of Exposure	
Physical form of product:	solid

Vapour pressure:	0,00024 hPa
Process Temperature:	25 °C
Remarks	Not relevant
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 10 %.

2.1. Control of Human Exposure

Other conditions affecting workers exposure						
Area of use	Room size	Temperature	Ventilation rate	Remarks		
Covers indoor and outdoor use.	20 m3	25 °C		Solid, high dustiness		

Frequency and duration of use	Duration	Frequency of use	Remarks			
Exposure time	480 min	5 day s/week				
Name of contributing exposur	e scenario		Risk Management Measures			
Roller, spreader, flow application: No other specific measures identified.						
Spraying, Manual:		Wear suitable respiratory pro (type EN374) if regular skin	Wear suitable respiratory protection (conforming to EN140 with Type A filter or better) and gloves (type EN374) if regular skin contact likely.			
Dipping, immersion and pouring:		No other specific measures i	dentified.			
Hand application - fingerpaints, pastels, adhesives:		Av oid carry ing out operation	for more than 4 hours. Wear suitable gloves te	sted to EN374.		

2.2.Control of environmental exposure				
Risk Management Measures	Note: Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.			
Technical measures at process level (source) to prevent release	For further specification, refer to section 8 of the SDS.			
Organizational measures to prevent/limit release from the site	None			
Environment factors not influenced by risk manage	jement			
Flow rate of receiving surface water	18.000 m3/d			
Local freshwater dilution factor	10			



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Versi 3.6 PRD	on Revision D 06.10.2020	ate:	SDS 150 SDS	5 Num 00000 EU / El	nber: 10146 N / 0001	Date o Date o	f last issue f first issue	e: 01.06.202 e: 04.02.20	20 11	
Local	marine water dilution fa	ctor		100						
ERC8 onto a	c: Wide dispersive indoor a matrix	use resulting	g in inclus	ion into	or onto a ma	atrix ERC8f: Wi	de dispersiv e c	outdoor use rest	ulting in inclusion into or	
[Technical onsite condi	tions and m	easures t	o reduc	e or limit d	ischarges, air ei	nissions and	releases to so	il	7
	Soil			Soil en	nission contr	ols are not applic	able as there	s no direct relea	ase to soil.	_
	Water			Risk fr Prever	om environn nt environme	nental exposure is ental discharge co	s driven by wa onsistent with r	stewater treatm egulatory requir	nent plant microbes., rements.	
	Amounts used: Region	nal use tonn	age	850 to	nnes/y ear					٦
	Amounts used: Fractic tonnage used locally	on of region	al	13,5						
[Msafe			Annual	amount per	site: 11.475 ton	nes/y ear]
	Frequency and duratio Continuous process:	n of use:		365 da	ays/yearEm	nission day s				7
	Other given operationa	l conditions	affecting	genviro	onmental ex	posure Emission or re	lease factors	to the		
	Туре:		Emissio	on days		relevant comp	artments		Remarks	
	Continuous release		365			Air 0 %	3,7 %	Water 1 %	EFCC spERC 8c.1a.v1 8f.1a.v1	I EFCC spERC
[Conditions and measu	res related to	o sewage	treatm	ent plant		-	•]
	Municipal sewage treat	ment plant:			0.000 0/					_
	Discharge rate Total efficiency of remov	alfrom wast	ewater af t	er onsite	e and off site	d (domestic treatn	nent plant) RM	Ms (%):87,3 %		_
	Conditions and measur Fraction of used amour	res related to nt transferre	o externa ed to exter	l treatm rnal was	ent of wast ste treatme	e for disposal nt]
	Suitable waste treatmen	nt ianaaal af wa		Trea	atment effec	ctiveness	Rer	narks		
	should comply with applic national regulations.	sposal of wa	nd/or							
	Waste Recovery			External recovery and recycling of waste should comply with applicable local and/or national regulations.					ional	
Section	on 3. Exposure estimatio	n and refere	ence to its	sourc	е					
3.1.He	ealth:		When the exposure of the exposure of the exposure of the expected of the expec	he recor res are i ed to be	mmended ris not expected less than 1.	k management n I to exceed the pr	reasures (RMI redicted DNELs	Ms) and operati	ional conditions (OCs) are ting risk characterisation	e observed, ratios are
PROC	C10: Roller application or b	orushing Ro	oller, sprea	ader, flo	w application	n				
]		Fxposure	level		RCR	Method			Remarks	
	Inhalation	1 ma/m ³			0,12	ECETOC TRA worker v3		Romanio		
	Dermal	2,74 mg/kg/day		0,55	ECETOC TRA worker v 3					
	combined routes			0,67	ECETOC TRA worker v3					
PROC	C11: Non industrial spray i	ng Spraying	, Manual							
[Exposure	elevel		RCR	Method			Remarks	
	Inhalation	4 mg/m ³			0,46	ECETOC TRA	worker v3			
	Dermal	2,14 mg/k	g/day		0,43	ECETOC TRA	worker v3			
	combined routes				0,89	ECETOC TRA	worker v3			

PROC13: Treatment of articles by dipping and pouring Dipping, immersion and pouring



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Version 3.6 PRD	Revision Date: 06.10.2020	SDS Number: 150000000146 SDSEU / EN / 0001	Date of last issue: 01.06.2020 Date of first issue: 04.02.2011

	Exposure level	RCR	Method	Remarks
Inhalation	0,5 mg/m³	0,06	ECETOC TRA worker v3	
Dermal	1,37 mg/kg/day	0,27	ECETOC TRA worker v 3	
combined routes		0,33	ECETOC TRA worker v3	

PROC19: Hand-mixing with intimate contact and only PPE available Hand application - fingerpaints, pastels, adhesives

	Exposure level	RCR	Method	Remarks
Inhalation	3 mg/m ³	0,35	ECETOC TRA worker v 3	
Dermal	2,83 mg/kg/day	0,57	ECETOC TRA worker v3	
combined routes		0,91	ECETOC TRA worker v 3	

3.2.Environment:

Used EUSES model. When the recommended risk management measures (RMMs) and operational conditions (OCs) are observed, exposures are not expected to exceed the predicted PNECs and the resulting risk characterisation ratios are expected to be less than 1.

ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix ERC8t: Wide dispersive outdoor use resulting in inclusion into or onto a matrix

Compartment	PEC	Risk characterisation ratio (PEC/PNEC):	Method	Remarks
Water	1,98 mg/l	0,396	EUSES	
Marine water	0,198 mg/l	0,396	EUSES	
Freshwater sediment	1,59 mg/kg wwt	0,396	EUSES	
Marine sediment	0,159 mg/kg wwt	0,396	EUSES	
Soil	0,009 mg/kg wwt	0,052	EUSES	
Sewage Treatment Plant	19,8 mg/l	0,99	EUSES	

Section 4 Guidance to check compliance with the exposure scenario





according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Version	Revision Date:	SDS Number:	Date of last issue: 01.06.2020
3.6 PRD	06.10.2020	150000000146 SDSEU / EN / 0001	Date of first issue: 04.02.2011

Exposure scenario VI. Use of a construction chemical., Consumer use

Section 1: Exposure scenario		
Sector(s) of use		SU21: Private households (=general public = consumers)
List of names of contributing worker scenarios corresponding PROCs	sand	
Name of contributing environmental scenario and corresponding ERC		ERC10a ERC11a
Section 2: Control of Exposure		
Physical form of product:	solid	
Vapour pressure:	0,000	24 hPa
Process Temperature: 25 °C		
Remarks	Not re	elevant
Concentration of the Substance in Mixture/Article	Cove	rs percentage substance in the product up to 10 %.
Remarks Concentration of the Substance in Mixture/Article	Not re Cov e	elev ant rs percentage substance in the product up to 10 %.

2.1. Control of Human Exposure

Name of contributing exposure scenario	Risk Management Measures

PC1, PC9: Adhesives, sealants, Coatings and Paints, Fillers, Putties, Thinners	Risk Management Measures
	Covers concentrations up to10, %
	Covers exposure up toone time per day
	For each use, avoid using for more than10, minutes
	Covers exposure up to240, minutes
	Covers use in room size of 30, m3
	For each use event, avoid using a product amount greater than1, grams
	Covers skin contact area up to1500, cm2
AC4: Stone, plaster, cement, glass and ceramic articles	Risk Management Measures

AC4: Stone, plaster, cement, glass and ceramic anticles	Risk Management Measures
	Covers concentrations up to10, %
	Covers exposure up toone time per day
	For each use, avoid using for more than10, minutes
	Covers exposure up to240, minutes
	Covers use in room size of 30, m3
	For each use event, avoid using a product amount greater than1, grams
	Covers skin contact area up to1500, cm2

2.2.Control of environmental exposure

Risk Management Measures		Note: Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.		
Technical measures at process level (source) to prevent release		For further specification, refer to section 8 of the SDS.		
	1		1	
Organizational measures to prevent/limit	Nor	ne		



according to Regulation (EC) No. 1907/2006

Version 3.6 PRD	Revision Date: 06.10.2020	SD3 150 SDS	S Number: 000000146 EU / EN / 0001	Date o Date o	f last issue f first issue	e: 01.06.20 e: 04.02.20	20 11	
release from	n the site]
Environmer	tfactors not influenced by ris	k manaa	ement					1
Flow rate of	receiving surface water	sk manay	18.000 m3/d					-
Local fresh	water dilution factor		10					-
Local marin	e water dilution factor		100					-
ERC10a: W	ide dispersiv e outdoor use of Ion	ng-lif e arti	cles and materials w	with low release]
Tech	nical onsite conditions and m	easures	to reduce or limit d	lischarges, air e	missions and	releases to so	oil	1
Soil			Soil emission cont	rols are not applic	able as there	s no direct rele	ase to soil.	1
Wate	r		Prev ent env ironme	ental discharge co	onsistent with r	egulatory requir	rements.	1
								-
Amou	unts used: Regional use tonn	age	850 tonnes/year					
Amou tonn	unts used: Fraction of regiona age used locally	al	4,25					
Msafe	9		Annual amount per	r site: 3.612 tonr	ies/year]
Freq Cont	uency and duration of use: inuous process:		365 days/year En	nission day s]
Othe	r given operational conditions	s affectin	g environmental ex	cposure				
Туре	:	Emissi	on days	Emission or re relevant comp Air	elease factors artments Soil	to the Water	Remarks	
Conti	nuous release	365		0,05 %	3,2 %	3,2 %		
Cond	ditions and measures related to	o sewage	e treatment plant]
Muni	cipal sewage treatment plant:							
D	Discharge rate		2.000 m3/	d		An (0/):07 0.0/		_
Total	erriciency of removal from wast	ewater ai	ter onsite and of i site	e (domestic treath	nent plant) Rivi	VIS (%):87,3 %]
Cond	ditions and measures related to	o externa	al treatment of wast	te for disposal				
Fract	tion of used amount transferre	ed to exte	rnal waste treatme	nt	Por	narks		
Exter shoul nation	nal treatment and disposal of wa d comply with applicable local ar nal regulations.	aste nd/or						
Wast	e Recovery		External recover regulations.	ery and recycling	of waste should	d comply with a	applicable local and/or nation	onal
ERC11a: W	ide dispersive indoor use of long	g-lif e artic	les and materials wit	h low release]
Tech	nical onsite conditions and m	easures	to reduce or limit d	lischarges, air e	missions and	releases to so	bil	1
Soil			Soil emission cont	rols are not applic	able as there	s no direct rele	ase to soil.	1
Wate	r		Prevent environme	ental discharge co	onsistent with r	egulatory requir	rements.]
Amou	unts used: Regional use tonn	age	850 tonnes/y ear					1
Amou tonn	unts used: Fraction of regiona age used locally	al	272					
Most				r site: 231 200				٦
wisate	5		Annual annount pe	1 3110. 231.200				1

Frequency and duration of use: Continuous process:	365 day s/y ear	65 day s/y ear Emission day s				
Other given operational conditions	s affecting environmental	exposure				
Туре:	Emission days	Emission or re relevant comp	elease factors artments	to the	Remarks	
		Air	Soil	Water		
Continuous release	365	0,05 %	0 %	0,05 %		



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Version 3.6 PRD	Revision Date: 06.10.2020	SDS 1500 SDSE	Number: 00000146 U / EN / 0001	Date of last i Date of first	issue: 01.06.2020 issue: 04.02.2011		
Con	ditions and measures re	lated to sewage 1	reatment plant				1
Mun	icipal sewage treatment	plant:					
	Discharge rate		2.000 m3	/d			1
Tota	efficiency of removal fro	m wastewater afte	r onsite and off site	e (domestic treatment plar	nt) RMMs (%):87,3 %		1
Con	ditions and measures re	lated to external	treatment of was	te for disposal			1
Frac	tion of used amount tra	nsferred to exterr	nal waste treatme	ent	-		
Suit	able waste treatment		Treatment effe	ctiveness	Remarks		
Exte shou natio	rnal treatment and dispose Id comply with applicable nal regulations.	al of waste local and/or					
Was	te Recovery		External recover regulations.	ery and recycling of waste	should comply with appl	icable local and/or natio	onal
Section 3. I	Exposure estimation and	reference to its	source				i
3.1.Health:		When the exposure expected	e recommended ri es are not expecte I to be less than 1.	sk management measures d to exceed the predicted	s (RMMs) and operationa DNELs and the resulting	al conditions (OCs) are risk characterisation ra	observed, atios are
PC1, PC9:	Adhesives, sealants, Coa	tings and Paints, F	fillers, Putties, Thi	nnersAC4: Stone, plaster	r, cement, glass and cera	amic articles]
	Ex	posure level	RCR	Method		Remarks	
Inha	ation 0,3	6 mg/m ³	0,12	ConsExpo 1.0.3			
Dern	nal 1,4	3 mg/kg/day	0,57	ConsExpo 1.0.3			
Oral	0 r	ng/kg/day	0	Qualitativ e approach u use.	used to conclude safe		
com	pined routes		0,69	ConsExpo 1.0.3			
3.2.Enviror	iment:	Used EU (OCs) ard characte	SES model. Wher e observed, expos risation ratios are	the recommended risk n ures are not expected to expected to be less than	ranagement measures (I exceed the predicted PN 1.	RMMs) and operational IECs and the resulting r	conditions isk

ERC10a: Wide dispersive outdoor use of long-life articles and materials with low release

Compartment	PEC	Risk characterisation ratio (PEC/PNEC):	Method	Remarks
Water	0,0008 mg/l	0,0002	EUSES	
Marine water	0,00008 mg/l	0,0003	EUSES	
Freshwater sediment	0,0006 mg/kg wwt	0,0001	EUSES	
Marine sediment	0,00006 mg/kg wwt	0,003	EUSES	
Soil	0,0023 mg/kg wwt	0,0002	EUSES	

ERC11a: Wide dispersive indoor use of long-life articles and materials with low release

Compartment	PEC	Risk characterisation ratio (PEC/PNEC):	Method	Remarks
Water	0,0007 mg/l	0,0001	EUSES	
Marine water	0,00006 mg/l	0,0001	EUSES	
Freshwater sediment	0,0005 mg/kg wwt	0,0001	EUSES	
Marine sediment	0,00005 mg/kg wwt	0,0001	EUSES	
Soil	0,0002 mg/kg wwt	0,0003	EUSES	

Section 4 Guidance to check compliance with the exposure scenario

4.1Health	Confirm that RMMs and OCs are as described or of equivalent efficiency
4.2. Environment	Further details on scaling and control technologies are provided in SPERC factsheet.ries-libraries.html).



according to Regulation (EC) No. 1907/2006

Version 3.6 PRD	Revision Date: 06.10.2020	SDS Number: 150000000146 SDSEU / EN / 0001	Date of last issue: 01.06.2020 Date of first issue: 04.02.2011
Scaling: The specific quot	e downstream user can check t ient should be inferior or equal	the compliance of his site by con to the spERC quotient.	nparing site specific data with def aults used in the exposure assessment. The site
	m _{spERC}	$*(1 - E_{\text{ER, SpERC}}) * F_{\text{release}}$ DF_{spERC}	$\frac{\text{e,spERC}}{\text{DF}_{\text{site}}} \ge \frac{m_{\text{site}} * (1 - E_{\text{ER,site}}) * F_{\text{release,site}}}{DF_{\text{site}}}$
mspERC: Su EER,spERC: Frelease s DFspERC: d msite: Substa EER,site: Eff Frelease si DFsite: dilutio	bstance use rate in spERC Efficacy of RMM in spERC pERC: Initial release fraction in ilution factor of STP effluent in ance use rate at site ficacy of RMM at site ite: Initial release fraction at site on factor of STP effluent in rive	spERC river a r	



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Version	Revision Date:	SDS Number:	Date of last issue: 01.06.2020
3.6 PRD	06.10.2020	150000000146 SDSEU / EN / 0001	Date of first issue: 04.02.2011

Not relevant

differently).

Exposure scenario VII. Use of small quantities within laboratory settings within enclosed or contained systems, including incidental exposures during material transfers and equipment cleaning., Professional use

Section 1: Exposure scenario	
Sector(s) of use	SU22: Public domain (administration, education, entertainment, services, craftsmen)
List of names of contributing worker scenarios and corresponding PROCs	PROC15.
Name of contributing environmental scenario and corresponding ERC	ERC8a
Section 2: Control of Exposure	
Physical form of product:	solid
Vapour pressure:	0,00024 hPa
Process Temperature:	25 °C

2.1. Control of Human Exposure

Concentration of the Substance in

Remarks

Mixture/Article

Other conditions affecting workers exposure						
Area of use	Room size	Temperature	Ventilation rate	Remarks		
Covers indoor and outdoor use.	20 m3	25 °C		Solid, low dustiness		

Covers the percentage of the substance in the product up to 100 % (unless stated

Frequency and duration of use	Duration	Frequency of use	Remarks	
Exposure time	480 min	5 day s/week		
Name of contributing exposure scenario			Risk Management Measures	
Laboratory activities, Pouring from small containers:		No other specific measures	identified	

Risk Management Measures	Note to al man	Note: Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.			
Technical measures at process level (source) to prevent release)	For further specification, refer to section 8 of the SDS.			
Organizational measures to prevent/limit release from the site	Nor	None			
Environment factors not influenced by risk man	agemen	t			
Flow rate of receiving surface water	18.0	18.000 m3/d			
Local freshwater dilution factor	10	10			
Local marine water dilution factor	100	100			

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Soil



according to Regulation (EC) No. 1907/2006

Eastman NPG(TM) Glycol Platelets

Versior 3.6 PRD	n Revision D 06.10.2020	oate:)	SDS 1500 SDSE	Number: 00000146 U / EN / 0001	Date Date	of last is of first i	ssue: 01.06 ssue: 04.02	6.2020 2.2011			
A	Air	F	Risk from environmental exposure is driven by humans via indirect exposure (primarily ingestion).								
s	Soil			Soil emission controls are not applicable as there is no direct release to soil.							
<u> </u>											
A	Amounts used: Region Amounts used: Fractic onnage used locally	e	850 tonnes/y ear 0,125								
N	Msafe	ŀ	Annual amount per site: 106 tonnes/year								
F	Frequency and duration of use: Continuous process:			365 day s/y ear Emission day s							
C	Other given operationa	l conditions af	fecting	g environmental exposure							
т	Гуре:	E	missior	n days	Emission or release fair relevant compartments		ctors to the	Remark	s		
С	Continuous release	3	365		50 %	0 %	50 %	ESVOC	spERC 8.17.v1		
	Municipal sewage treatment plant: Discharge rate 2.000 m3/d Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%):87,3 %										
F	Fraction of used amou	nt transferred to	o extern	al waste treatme	e for disposa						
S	Suitable waste treatment External treatment and disposal of waste should comply with applicable local and/or national regulations. Waste Recovery			Treatment effectiveness Remarks							
E s n											
v				External recovery and recycling of waste should comply with applicable local and/or national regulations.							
Section	3. Exposure estimatio	n and reference	e to its :	source							
3.1.Heal	I.Health: When t exposu expect			he recommended risk management measures (RMMs) and operational conditions (OCs) are obs res are not expected to exceed the predicted DNELs and the resulting risk characterisation ratio ed to be less than 1.							
PROC15	5: Use as laboratory rea	agent Laborato	ry activi	ties, Pouring from	small container	ſS					
_		Exposuro la	vel	PCP Method					narke		
Ir	Lobalation 0.1 mg/m ³			0.01	ECETOC T	ECETOC TRA worker v3					
D	Dermal 0,34 mg/kg/day combined routes			0,07	ECETOC T	ECETOC TRA worker v3					
с				0,08 ECETOC TRA worker v3							
3.2.Envi	ironment: Wide dispersive indoor	U ((c use of process)	Ised EU OCs) are haracter	SES model. When observed, expos risation ratios are e in open systems	the recommend ures are not ex expected to be	ded risk m pected to e less than 1	anagement mea xceed the prec	asures (RMMs) licted PNECs a	and operational conditions nd the resulting risk		
	Compartment	PEC		Risk character	isation ratio		Method		Remarks		
v	Water	0,921 mg/l 0,092 mg/l		(PEC/PNEC): 0,184 0,184			EUSES EUSES				
N	Marine water										
F	Freshwater sediment 0,741 mg				0,184		EUSES				
Ν	Marine sediment	0,074 mg/kg	wwt		0,184		EUSES				

0,107

EUSES

0,072 mg/kg wwt



according to Regulation (EC) No. 1907/2006

Version 3.6 PRD	Revision Date: 06.10.2020		SDS Number: 150000000146 SDSEU / EN / 0001	Date of last issue: 01.06.2020 Date of first issue: 04.02.2011					
Sewa Plant	age Treatment	8,8 mg/l		0,44	EUSES				
Section 4	Guidance to check	compliance	vith the exposure scenaric	0					
4.1Health			Confirm that	Confirm that RMMs and OCs are as described or of equivalent efficiency					
4.2. Enviro	nment		Further detail	Further details on scaling and control technologies are provided in SPERC factsheet.ries-libraries.html).					
Scaling: The specific quo	ne downstream use tient should be infe	er can check the erior or equal to	e compliance of his site by c the spERC quotient.	omparing site specif	fic data with defaults used in the	exposure assessment. The site			
		m _{spERC} *	$\frac{(1 - E_{\text{ER,spERC}}) * F_{\text{rele}}}{DF_{\text{spERC}}}$	$\frac{\text{ase,spERC}}{\text{spERC}} \ge \frac{m_{\text{site}}}{m_{\text{site}}}$	$\frac{F_{\text{ER,site}} + (1 - E_{\text{ER,site}}) + F_{\text{release,si}}}{DF_{\text{site}}}$	te			
mspERC: S EER,spERC Frelease s DFspERC: msite: Subs EER,site: El Frelease s DEsite: dilut	ubstance use rate i C: Efficacy of RMM spERC: Initial release dilution factor of ST tance use rate at si fficacy of RMM at s site: Initial release f ion factor of STP efforts	n spERC in spERC se fraction in sj P effluent in riv te ite raction at site fluent in river	er						