

Eastman(TM) Adhesion Promoter 550-1 (25% in Xylene)

Version	Revision Date:	SDS Number:	Date of last issue: 05/22/2020
1.4	05/22/2020	150000045602	Date of first issue: 09/06/2016
PRD		SDSUS / Z8 / 0001	

SECTION 1. IDENTIFICATION

Product name : Eastman(TM) Adhesion Promoter 550-1 (25% in Xylene)

Product code : 24351-00, P2435100, E2435105, P2435103, P2435104, P2435107

Manufacturer or supplier's details

Company name of supplier : Eastman Chemical Company

Address : 200 South Wilcox Drive
Kingsport TN 37660-5280

Telephone : (423) 229-2000

Emergency telephone : CHEMTREC: +1-800-424-9300, +1-703-527-3887 CCN7321

Recommended use of the chemical and restrictions on use

Recommended use : Adhesion promoter

Restrictions on use : None known.

SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with 29 CFR 1910.1200**

Flammable liquids : Category 3

Acute toxicity (Inhalation) : Category 4

Acute toxicity (Dermal) : Category 4

Skin irritation : Category 2

Eye irritation : Category 2A

Specific target organ toxicity : Category 3 (Respiratory system)
- single exposure

Specific target organ toxicity : Category 2 (hearing organs)
- repeated exposure

GHS label elements

Hazard pictograms :



**Eastman(TM) Adhesion Promoter 550-1 (25%
in Xylene)**

Version	Revision Date:	SDS Number:	Date of last issue: 05/22/2020
1.4	05/22/2020	150000045602	Date of first issue: 09/06/2016
PRD		SDSUS / Z8 / 0001	

Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.
H312 + H332 Harmful in contact with skin or if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H373 May cause damage to organs (hearing organs) through prolonged or repeated exposure.

Precautionary Statements : **Prevention:**
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ eye protection/ face protection.

Response:
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314 Get medical advice/ attention if you feel unwell.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Eastman(TM) Adhesion Promoter 550-1 (25% in Xylene)

Version	Revision Date:	SDS Number:	Date of last issue: 05/22/2020
1.4	05/22/2020	150000045602	Date of first issue: 09/06/2016
PRD		SDSUS / Z8 / 0001	

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**Components**

Chemical name	CAS-No.	Concentration (% w/w)
xylene	1330-20-7	60 - 65
modified polyolefin	not assigned	23 - 27
ethylbenzene	100-41-4	12 - 18

SECTION 4. FIRST AID MEASURES

- If inhaled : Remove to fresh air.
If not breathing, give artificial respiration.
If breathing is difficult, give oxygen.
Get immediate medical advice/ attention.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes.
Take off all contaminated clothing immediately.
Wash contaminated clothing before reuse.
Get medical advice/ attention.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
Seek medical advice.
- If swallowed : Call a physician or poison control center immediately.
Do NOT induce vomiting.
- Most important symptoms and effects, both acute and delayed : May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye irritation.
Harmful if inhaled.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.
Harmful in contact with skin or if inhaled.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.
- Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water spray

Eastman(TM) Adhesion Promoter 550-1 (25% in Xylene)

Version	Revision Date:	SDS Number:	Date of last issue: 05/22/2020
1.4	05/22/2020	150000045602	Date of first issue: 09/06/2016
PRD		SDSUS / Z8 / 0001	

Dry chemical
Carbon dioxide (CO2)
Foam

Unsuitable extinguishing media : None known.

Hazardous combustion products : No hazardous combustion products are known

Further information : Use water spray to cool unopened containers.

Special protective equipment for fire-fighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Local authorities should be advised if significant spillages cannot be contained.

Environmental precautions : Avoid release to the environment.

Methods and materials for containment and cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Do not breathe vapors or spray mist.
Avoid contact with skin, eyes and clothing.
Do not taste or swallow.
Use only with adequate ventilation.
Wash thoroughly after handling.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Ingredients with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
xylene	1330-20-7	TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH

Eastman(TM) Adhesion Promoter 550-1 (25% in Xylene)

Version
1.4
PRD

Revision Date:
05/22/2020

SDS Number:
150000045602
SDSUS / Z8 / 0001

Date of last issue: 05/22/2020
Date of first issue: 09/06/2016

		STEL	150 ppm 655 mg/m3	OSHA P0
		TWA	100 ppm 435 mg/m3	OSHA P0
		TWA	100 ppm 435 mg/m3	ACGIH
		STEL	150 ppm 655 mg/m3	OSHA Z-1
		STEL	150 ppm	ACGIH
		TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		STEL	150 ppm 655 mg/m3	OSHA P0
		TWA	100 ppm 435 mg/m3	OSHA P0
ethylbenzene	100-41-4	TWA	20 ppm	ACGIH
		TWA	100 ppm 435 mg/m3	NIOSH REL
		ST	125 ppm 545 mg/m3	NIOSH REL
		TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm 435 mg/m3	OSHA P0
		STEL	125 ppm 545 mg/m3	OSHA P0

Engineering measures : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

Respiratory protection : Wear respiratory protection.

Hand protection

Remarks : Wash hands after handling.

Eye protection : Safety glasses

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Eastman(TM) Adhesion Promoter 550-1 (25%
in Xylene)**

Version	Revision Date:	SDS Number:	Date of last issue: 05/22/2020
1.4	05/22/2020	150000045602	Date of first issue: 09/06/2016
PRD		SDSUS / Z8 / 0001	

Appearance	:	viscous liquid
Color	:	yellow
Odor	:	aromatic
Odor Threshold	:	not determined
pH	:	not determined
Melting point/range	:	not determined
Boiling point/boiling range	:	279 - 291 °F / 137 - 144 °C
Flash point	:	81 °F / 27 °C
		Method: Pensky-Martens closed cup
Evaporation rate	:	not determined
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapor pressure	:	not determined
Relative vapor density	:	not determined
Relative density	:	< 1 (estimated)
Solubility(ies)		
Water solubility	:	negligible
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	not determined
Decomposition temperature	:	Method: DSC No exotherm to 500°C
Viscosity		
Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	not determined
Explosive properties	:	No data available

**Eastman(TM) Adhesion Promoter 550-1 (25%
in Xylene)**

Version	Revision Date:	SDS Number:	Date of last issue: 05/22/2020
1.4	05/22/2020	150000045602	Date of first issue: 09/06/2016
PRD		SDSUS / Z8 / 0001	

Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : None known.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : Carbon dioxide (CO₂)
Carbon monoxide

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Harmful in contact with skin or if inhaled.

Product:

Acute oral toxicity : Acute toxicity estimate: 4,682 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 14.64 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 1,808 mg/kg
Method: Calculation method

Components:**xylene:**

Acute oral toxicity : LD₅₀ Oral (Rat, male): 3,523 mg/kg

ethylbenzene:

Acute oral toxicity : LD₅₀ Oral (Rat): 3,500 mg/kg

Acute inhalation toxicity : LC₅₀ (Rat): 17 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD₅₀ Dermal (Rabbit): 15,400 mg/kg

**Eastman(TM) Adhesion Promoter 550-1 (25%
in Xylene)**

Version	Revision Date:	SDS Number:	Date of last issue: 05/22/2020
1.4	05/22/2020	150000045602	Date of first issue: 09/06/2016
PRD		SDSUS / Z8 / 0001	

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks : No data available

Components:**xylene:**

Species	:	Rabbit
Exposure time	:	24 h
Result	:	slight

ethylbenzene:

Species	:	Rabbit
Exposure time	:	24 h
Result	:	slight

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks : No data available

Components:**xylene:**

Species	:	Rabbit
Result	:	Severe irritation
Exposure time	:	24 h
Remarks	:	Causes serious eye irritation.

ethylbenzene:

Species	:	Rabbit
Result	:	moderate to strong

Respiratory or skin sensitization**Skin sensitization**

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Product:

Remarks : No data available

Eastman(TM) Adhesion Promoter 550-1 (25% in Xylene)

Version	Revision Date:	SDS Number:	Date of last issue: 05/22/2020
1.4	05/22/2020	150000045602	Date of first issue: 09/06/2016
PRD		SDSUS / Z8 / 0001	

Components:**xylene:**

Test Type	:	OECD 429: LLNA
Species	:	Mouse
Result	:	non-sensitizing

ethylbenzene:

Test Type	:	Skin Sensitization
Result	:	non-sensitizing

Germ cell mutagenicity

Not classified based on available information.

Components:**xylene:**

Genotoxicity in vitro	:	Test Type: Salmonella typhimurium assay (Ames test) Metabolic activation: +/- activation Method: Bacterial Reverse Mutation Assay Result: negative
-----------------------	---	---

Genotoxicity in vivo	:	Species: Rat Application Route: intraperitoneal injection Method: Genetic Toxicology: Rodent Dominant Lethal Test Result: negative
----------------------	---	---

Carcinogenicity

Not classified based on available information.

Product:

Remarks	:	This information is not available.
---------	---	------------------------------------

IARC	Group 2B: Possibly carcinogenic to humans ethylbenzene	100-41-4
-------------	---	----------

OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
-------------	--

NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
------------	--

Reproductive toxicity

Not classified based on available information.

Product:

Effects on fertility	:	Remarks: No data available
----------------------	---	----------------------------

STOT-single exposure

May cause respiratory irritation.

**Eastman(TM) Adhesion Promoter 550-1 (25%
in Xylene)**

Version	Revision Date:	SDS Number:	Date of last issue: 05/22/2020
1.4	05/22/2020	150000045602	Date of first issue: 09/06/2016
PRD		SDSUS / Z8 / 0001	

Product:

Remarks : No data available

Components:**xylene:**

Target Organs : respiratory tract irritation

ethylbenzene:

Routes of exposure : Inhalation

Target Organs : Narcotic effects

STOT-repeated exposure

May cause damage to organs (hearing organs) through prolonged or repeated exposure.

Product:

Remarks : No data available

Components:**xylene:**

Target Organs : Auditory system

Repeated dose toxicity**Components:****xylene:**

Species : Rat, male and female

NOAEL : 250 mg/kg

Application Route : Oral Study

Species : Rat, male

: 3515 mg/m³

Application Route : Inhalation

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Components:**xylene:**

May be fatal if swallowed and enters airways.

**Eastman(TM) Adhesion Promoter 550-1 (25%
in Xylene)**

Version	Revision Date:	SDS Number:	Date of last issue: 05/22/2020
1.4	05/22/2020	150000045602	Date of first issue: 09/06/2016
PRD		SDSUS / Z8 / 0001	

ethylbenzene:

May be fatal if swallowed and enters airways.

Information on likely routes of exposure**Product:**

Inhalation	:	Remarks: Harmful if inhaled. May cause respiratory irritation.
Skin contact	:	Remarks: Harmful in contact with skin. Causes skin irritation.
Eye contact	:	Remarks: Causes serious eye irritation.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****xylene:**

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 2.6 mg/l Exposure time: 96 h Remarks: Read-across from a similar material
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 3.4 mg/l Exposure time: 24 h
Toxicity to algae/aquatic plants	:	EC50 (Selenastrum capricornutum): 2.2 mg/l Exposure time: 72 h NOEC: (Selenastrum capricornutum): 0.44 mg/l Exposure time: 72 h
Toxicity to fish (Chronic toxicity)	:	NOEC (Oncorhynchus mykiss (rainbow trout)): > 1.3 mg/l Exposure time: 56 d GLP: no
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.96 mg/l Exposure time: 7 d

ethylbenzene:	
Toxicity to fish	:
	LC50 (Cyprinodon variegatus (sheepshead minnow)): 275 mg/l Exposure time: 96 h LC50 (Pimephales promelas (fathead minnow)): 42.3 - 48.5 mg/l Exposure time: 96 h

**Eastman(TM) Adhesion Promoter 550-1 (25%
in Xylene)**

Version	Revision Date:	SDS Number:	Date of last issue: 05/22/2020
1.4	05/22/2020	150000045602	Date of first issue: 09/06/2016
PRD		SDSUS / Z8 / 0001	

LC50 (Poecilia reticulata (guppy)): 97.1 mg/l
Exposure time: 96 h

Persistence and degradability**Components:****xylene:**

Biodegradability : Result: Readily biodegradable.

ethylbenzene:

Biodegradability : Result: Readily biodegradable.

Bioaccumulative potential**Components:****xylene:**

Bioaccumulation : Bioconcentration factor (BCF): 7.4 - 18.5

ethylbenzene:

Partition coefficient: n-octanol/water : log Pow: 3.15

Mobility in soil**Components:****ethylbenzene:**

Distribution among environmental compartments : log Koc: 3.12

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : In accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION**International Regulations****IATA-DGR**

UN/ID No. : UN 1139

Proper shipping name : Coating solution

Eastman(TM) Adhesion Promoter 550-1 (25% in Xylene)

Version	Revision Date:	SDS Number:	Date of last issue: 05/22/2020
1.4	05/22/2020	150000045602	Date of first issue: 09/06/2016
PRD		SDSUS / Z8 / 0001	

Class : 3
Packing group : III
Labels : Flammable Liquids
Packing instruction (cargo aircraft) : 366
Packing instruction (passenger aircraft) : 355

IMDG-Code

UN number : UN 1139
Proper shipping name : COATING SOLUTION

Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-E
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation**49 CFR**

UN/ID/NA number : UN 1139
Proper shipping name : Coating solution

Class : 3
Packing group : III
Labels : FLAMMABLE LIQUID
ERG Code : 127
Marine pollutant : no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION**EPCRA - Emergency Planning and Community Right-to-Know****SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Acute toxicity (any route of exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)
Aspiration hazard

**Eastman(TM) Adhesion Promoter 550-1 (25%
in Xylene)**

Version	Revision Date:	SDS Number:	Date of last issue: 05/22/2020
1.4	05/22/2020	150000045602	Date of first issue: 09/06/2016
PRD		SDSUS / Z8 / 0001	

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

xylene 1330-20-7

ethylbenzene 100-41-4

California Prop. 65

WARNING: This product can expose you to chemicals including ethylbenzene, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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

TCSI	: On the inventory, or in compliance with the inventory
TSCA	: All substances listed as active on the TSCA inventory
DSL	: All components of this product are on the Canadian DSL
ENCS	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION**Further information**

Eastman(TM) Adhesion Promoter 550-1 (25% in Xylene)

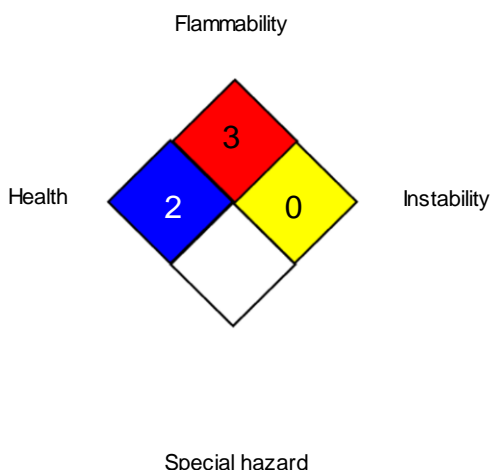
Version
1.4
PRD

Revision Date:
05/22/2020

SDS Number:
150000045602
SDSUS / Z8 / 0001

Date of last issue: 05/22/2020
Date of first issue: 09/06/2016

NFPA 704:



HMIS® IV:

HEALTH	*	2
FLAMMABILITY		3
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH	: US. ACGIH Threshold Limit Values
ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	: USA. NIOSH Recommended Exposure Limits
OSHA P0	: USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1	: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / STEL	: short-term exposure limit
ACGIH / TWA	: 8-hour, time-weighted average
ACGIH / TWA	: 8-hour, time-weighted average
ACGIH / STEL	: Short-term exposure limit
NIOSH REL / TWA	: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	: STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA P0 / TWA	: 8-hour time weighted average
OSHA P0 / STEL	: Short-term exposure limit
OSHA Z-1 / TWA	: 8-hour time weighted average
OSHA Z-1 / STEL	: 15-minute occupational exposure limit

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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

**Eastman(TM) Adhesion Promoter 550-1 (25%
in Xylene)**

Version	Revision Date:	SDS Number:	Date of last issue: 05/22/2020
1.4	05/22/2020	150000045602	Date of first issue: 09/06/2016
PRD		SDSUS / Z8 / 0001	

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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 05/22/2020

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.

US / Z8