

**Eastman(TM) Chlorinated Polyolefin 515-2
(40% Solids in Xylene)**

PO00079912

Version	Revision Date:	SDS Number:	Date of last issue: 09/24/2018
2.4	11/11/2018	150000000050	Date of first issue: 09/06/2016
PRD		SDSUS / Z8 / 0001	N44 / 0038612222 / 0004252919

SECTION 1. IDENTIFICATION

Product name : Eastman(TM) Chlorinated Polyolefin 515-2 (40% Solids in Xylene)

Product code : S0636404

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

Skin irritation : Category 2

Eye irritation : Category 2A

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

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

GHS label elements

Hazard pictograms :



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Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
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.

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Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Ingredients

Chemical name	CAS-No.	Concentration (% w/w)
xylene	1330-20-7	< 60
chlorinated polyolefin	68442-33-1	> 38
ethylbenzene	100-41-4	< 15
chlorobenzene	108-90-7	< 5
epoxidized oil	61789-01-3	< 2

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.
Remove contaminated clothing. If irritation develops, get medical attention.
Wash contaminated clothing before reuse.

In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
Get medical advice/ attention.
Remove person to fresh air. If signs/symptoms continue, get medical attention.

If swallowed : Immediately call a POISON CENTER/doctor.
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.
May cause respiratory irritation.
Harmful if inhaled.
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

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Dry chemical
Carbon dioxide (CO2)
Foam

- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.
- Specific hazards during fire fighting : Flash back possible over considerable distance. Prevent buildup of vapors or gases to explosive concentrations.
- Further information : Flammable liquid and vapor.
Material will float and may ignite on surface of water.
- 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 : Wear appropriate 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 : Eliminate all ignition sources if safe to do so.
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).
Prevent runoff from entering drains, sewers, or streams.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Wear suitable protective clothing.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Ground and bond container and receiving equipment.
Use explosion-proof electrical equipment.
Use non-sparking tools.
Take precautionary measures against static discharges.
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
Wash hands thoroughly after handling.
Use only in well-ventilated areas.
- Conditions for safe storage : Storage of solutions near 25°C will minimize haze and gel formation.
Solutions may become hazy, partially precipitate from solution, or gel with time on exposure to low temperature. with mild agitation will generally return the product to its original condition.
Store in a well-ventilated place. Keep container tightly closed.

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Keep container tightly closed.
Store locked up.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
xylene	1330-20-7	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
chlorobenzene	108-90-7	TWA	10 ppm	ACGIH
		TWA	75 ppm 350 mg/m3	OSHA Z-1
		TWA	75 ppm 350 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 : If engineering controls do not maintain airborne concentrations below recommended exposure limits (where

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applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Eye protection : Wear eye/face protection.
Wear safety glasses with side shields (or goggles).

Protective measures : Ensure that eye flushing systems and safety showers are located close to the working place.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : viscous liquid

Color : amber

Odor : aromatic

Odor Threshold : not determined

pH : not determined

Melting point/range :

Boiling point/boiling range : 280 °F / 138 °C

Flash point : 81 °F / 27 °C

Method: Tag 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 : 0.99 (77 °F / 25 °C)

Solubility(ies)
Water solubility : negligible

Partition coefficient: n-octanol/water : No data available

Autoignition temperature : not determined

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Decomposition temperature : Method: DSC
No exotherm to 450°C

Viscosity
Viscosity, dynamic : not determined

Viscosity, kinematic : not determined

Explosive properties : No data available

Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : None reasonably foreseeable.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : None known.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Strong oxidizing agents

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Harmful if inhaled.

Ingredients:**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

chlorobenzene:

Acute oral toxicity : LD50 Oral (Rat): 2,262 mg/kg

Acute inhalation toxicity : LC50 (Rat): 29.7 mg/l
Exposure time: 4 h

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Acute dermal toxicity : LD50 Dermal (Guinea pig): > 20,000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Ingredients:**xylene:**

Species	: Rabbit
Exposure time	: 24 h
Result	: slight

ethylbenzene:

Species	: Rabbit
Exposure time	: 24 h
Result	: slight

chlorobenzene:

Species	: Guinea pig
Exposure time	: 24 h
Result	: slight

Serious eye damage/eye irritation

Causes serious eye irritation.

Ingredients:**xylene:**

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

ethylbenzene:

Species	: Rabbit
Result	: moderate to strong

chlorobenzene:

Species	: Rabbit
Result	: slight

Respiratory or skin sensitization**Skin sensitization**

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

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Ingredients:**xylene:**

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

ethylbenzene:

Test Type	: Skin Sensitization
Result	: non-sensitizing

chlorobenzene:

Test Type	: Skin Sensitization
Species	: Guinea pig
Result	: non-sensitizing

Germ cell mutagenicity

Not classified based on available information.

Ingredients:**xylene:**

Genotoxicity in vitro	: Test Type: Salmonella typhimurium assay (Ames test) Metabolic activation: +/- activation Method: Bacterial Reverse Mutation Assay Result: negative
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Genotoxicity in vivo	: Species: Rat Application Route: intraperitoneal injection Method: Genetic Toxicology: Rodent Dominant Lethal Test Result: negative
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chlorobenzene:

Genotoxicity in vitro	: Test Type: Mutagenicity - Bacterial Metabolic activation: +/- activation Method: Bacterial Reverse Mutation Assay Result: negative Remarks: Published study
	Test Type: Mutagenicity - Mammalian Metabolic activation: +/- activation Method: In vitro Mammalian Chromosome Aberration Test Result: negative Remarks: Published study
	Test Type: Mutagenicity - Mammalian Metabolic activation: +/- activation Method: Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells Result: negative Remarks: Published study

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Genotoxicity in vivo : Species: Drosophila melanogaster
Method: Genetic Toxicology: Sex-Linked Recessive Lethal
Test in Drosophila melanogaster
Result: negative
Remarks: Published study

Carcinogenicity

Not classified based on available information.

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.

STOT-single exposure

May cause respiratory irritation.

Ingredients:**xylene:**

Target Organs : respiratory tract irritation

ethylbenzene:

Routes of exposure : Inhalation
Target Organs : Narcotic effects

chlorobenzene:

Routes of exposure : Inhalation
Target Organs : Narcotic effects

STOT-repeated exposure

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

Ingredients:**xylene:**

Target Organs : Auditory system

chlorobenzene:

Routes of exposure : Oral
Assessment : Based on available data, the classification criteria are not met.

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Repeated dose toxicity**Ingredients:****xylene:**

Species	: Rat, Male and Female
NOAEL	: 250 mg/kg
Application Route	: Oral Study

Species	: Rat, male
	: 3515 mg/m ³
Application Route	: Inhalation

chlorobenzene:

Species	: Rat, Male and Female
NOAEL	: 120 mg/kg
Method	: OECD Test No. 451: Carcinogenicity Studies
Remarks	: Published study

Species	: Rat, Male and Female
	: 235 mg/m ³
Method	: OECD Test No. 416: Two-Generation Reproduction Toxicity Study
Remarks	: Published study

Aspiration toxicity

Not classified based on available information.

Ingredients:**xylene:**

May be fatal if swallowed and enters airways.

ethylbenzene:

May be fatal if swallowed and enters airways.

chlorobenzene:

May be harmful if swallowed and enters airways.

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

Inhalation	: Remarks: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: Remarks: Causes skin irritation.
Eye contact	: Remarks: Causes serious eye irritation.
Ingestion	: Remarks: May be fatal if swallowed and enters airways.

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Further information**Product:**

Remarks : Causes damage to organs.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Ingredients:****xylene:**Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2.6 mg/l
Exposure time: 96 h
Remarks: Read-across from a similar materialToxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 3.4 mg/l
aquatic invertebrates Exposure time: 24 hToxicity to algae : EC50 (Selenastrum capricornutum): 2.2 mg/l
Exposure time: 72 hNOEC: (Selenastrum capricornutum): 0.44 mg/l
Exposure time: 72 hToxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): > 1.3 mg/l
Exposure time: 56 d
GLP: noToxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 0.96 mg/l
aquatic invertebrates Exposure time: 7 d
(Chronic toxicity)**ethylbenzene:**Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): 275 mg/l
Exposure time: 96 hLC50 (Pimephales promelas (fathead minnow)): 42.3 - 48.5 mg/l
Exposure time: 96 hLC50 (Poecilia reticulata (guppy)): 97.1 mg/l
Exposure time: 96 h**chlorobenzene:**Toxicity to fish : LC50 (goldfish): 73.03 mg/l
Exposure time: 96 h

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Toxicity to daphnia and other aquatic invertebrates : EC50 (daphnid): 4.3 mg/l
Exposure time: 48 h

Toxicity to fish (Chronic toxicity) : NOEC (Danio rerio (zebra fish)): 4.8 mg/l
Exposure time: 28 d
Remarks: Published study

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.32 mg/l
Exposure time: 16 d
Remarks: Published study

Persistence and degradability**Ingredients:****xylene:**

Biodegradability : Result: Readily biodegradable.

ethylbenzene:

Biodegradability : Result: Readily biodegradable.

chlorobenzene:Biochemical Oxygen Demand (BOD) : BOD-5:
30 mg/g

Chemical Oxygen Demand (COD) : 410 mg/g

BOD/COD : BOD/COD: 7.32 %

ThOD : 2,060 mg/g

Bioaccumulative potential**Ingredients:****xylene:**

Bioaccumulation : Bioconcentration factor (BCF): 7.4 - 18.5

ethylbenzene:

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

Mobility in soil**Ingredients:****ethylbenzene:**

Distribution among environmental compartments : log Koc: 3.12

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chlorobenzene:

Distribution among environmental compartments : log Koc: 2.4

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**Waste from residues : Dispose of in accordance with local regulations.
Mix with compatible chemical which is less flammable and incinerate.**SECTION 14. TRANSPORT INFORMATION****International Regulations****IATA-DGR**

UN/ID No.	: UN 1139
Proper shipping name	: Coating solution
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, <u>S-E</u>
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

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Labels : Class 3 - 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****CERCLA Reportable Quantity**

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
xylene	1330-20-7	100	169

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)

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
chlorobenzene	108-90-7

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:

DSL : All components of this product are on the Canadian DSL
AICS : 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

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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 : On the inventory, or in compliance with the inventory

TSCA list

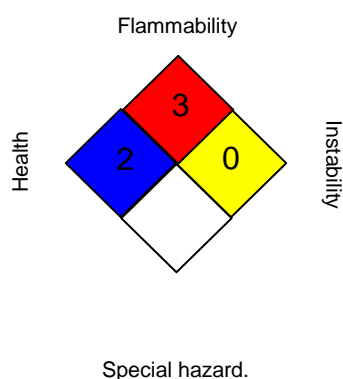
No substances are subject to a Significant New Use Rule.

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

SECTION 16. OTHER INFORMATION

Further information

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

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	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 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

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The information provided in this Material 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.

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