

Eastman(TM) Adhesion Promoter 550-1 (25% in Aromatic 100)

Customer PO: ZSAMPLE00000225695

Version	Revision Date:	SDS Number:	Date of last issue: 03/23/2021
1.5	12/30/2022	150000047624	Date of first issue: 09/06/2016
PRD		SDSUS / Z8 / 0001	N01 / 0091605050 / 0004358283

SECTION 1. IDENTIFICATION

Product name : Eastman(TM) Adhesion Promoter 550-1 (25% in Aromatic 100)

Product code : P2460607

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 the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Flammable liquids : Category 3

Acute toxicity (Inhalation) : Category 4

Skin irritation : Category 2

Eye irritation : Category 2A

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

Aspiration hazard : Category 1

GHS label elements

Hazard pictograms :



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Signal Word : Danger

Hazard Statements : H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.

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/ equip-
ment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing 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:

P301 + P310 IF SWALLOWED: Immediately call a POISON
CENTER/ doctor.
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.
P331 Do NOT induce vomiting.
P332 + P313 If skin irritation occurs: Get medical advice/ atten-
tion.
P337 + P313 If eye irritation persists: Get medical advice/ atten-
tion.
P362 Take off contaminated clothing and wash before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alco-
hol-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 dis-
posal plant.

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Other hazards

None known.

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

Chemical name	CAS-No.	Concentration (% w/w)
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified	64742-95-6	>= 30 - < 50
1,2,4-Trimethylbenzene	95-63-6	>= 20 - < 30
cumene	98-82-8	>= 1 - < 5

Eastman is committed to the safety, health and environment of our employees, our customers, and the communities we operate within. As part of this commitment, Eastman's Safety Data Sheets (SDS) are prepared in accordance with all applicable national and local regulations. The compositions of our documents reflect these requirements which include, but are not limited to, requirements under the Globally Harmonized System of Classification and Labeling (GHS). These compositions commonly involve the use of ranges versus specific analytical values. If you require a composition that is more specific, please refer to the Certificate of Analysis, sales specification, or contact your Customer Service Representative.

SECTION 4. FIRST AID MEASURES

- | | |
|---|---|
| If inhaled | : Move to fresh air.
Treat symptomatically.
If symptoms persist, call a physician. |
| In case of skin contact | : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Wash contaminated clothing before re-use.
Get medical attention.
Thoroughly clean shoes before reuse. |
| In case of eye contact | : Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/ attention. |
| If swallowed | : If accidentally swallowed obtain immediate medical attention.
Do NOT induce vomiting.
If victim is fully conscious, give a cupful of water.
Never give anything by mouth to an unconscious person.
Hold person's head low, to prevent aspiration. |
| 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. |

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Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide (CO2)
Dry chemical
Water spray

Specific hazards during fire fighting : Water may be ineffective.
The product will float on water and can be reignited on surface water.

Hazardous combustion products : No hazardous combustion products are known

Further information : Flammable liquid and vapor.
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 : 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 : 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).
After cleaning, flush away traces with water.
Eliminate all ignition sources if safe to do so.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : None known.

Advice on safe handling : Avoid inhalation of vapor or mist.
Do not get on skin or clothing.
Do not get in eyes.
Avoid contact with skin, eyes and clothing.
Do not swallow.
Ensure adequate ventilation.
Wash thoroughly after handling.
Keep away from fire (No Smoking).
Keep away from fire, sparks and heated surfaces.

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Do not use sparking tools.
Keep away from food, drink and animal foodstuff.

Conditions for safe storage : Keep container closed when not in use.
Store locked up.

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
1,2,4-Trimethylbenzene	95-63-6	TWA	25 ppm 125 mg/m3	NIOSH REL
		TWA	25 ppm	ACGIH
		TWA	25 ppm 125 mg/m3	OSHA P0
		TWA	10 ppm	ACGIH
cumene	98-82-8	TWA	5 ppm	ACGIH
		TWA	50 ppm 245 mg/m3	NIOSH REL
		TWA	50 ppm 245 mg/m3	OSHA Z-1
		TWA	50 ppm 245 mg/m3	OSHA P0

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hand protection

Remarks : Wear protective gloves.

Eye protection : Safety goggles
Face-shield
Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.

Skin and body protection : Wear protective gloves/ protective clothing.

Protective measures : Remove respiratory and skin/eye protection only after vapors have been cleared from the area.

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Ensure that eye flushing systems and safety showers are located close to the working place.
Use personal protective equipment as required.

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : viscous liquid

Color : yellow

Odor : aromatic

Odor Threshold : not determined

pH : not determined

Melting point/range : not determined

Boiling point/boiling range : not determined

Flash point : 116.2 °F / 46.8 °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

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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
Oxidizing properties	:	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Stable
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	Carbon dioxide (CO ₂) Carbon monoxide

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Harmful if inhaled.

Product:

Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	10 mg/l Exposure time: 4 h Test atmosphere: vapor Assessment: Harmful if inhaled., The component/mixture is moderately toxic after short term inhalation.
Acute dermal toxicity	:	Remarks: No data available

Components:**Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified:**

Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 2,000 mg/kg
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1,2,4-Trimethylbenzene:

Acute oral toxicity : LD50 Oral (Rat, male): 6,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 18 mg/l
Exposure time: 4 h
Remarks: respiratory tract irritation

Acute dermal toxicity : LD50 Dermal (Rat): > 3,440 mg/kg
Remarks: Read-across from a similar material

cumene:

Acute oral toxicity : LD50 Oral (Rat): 2,910 mg/kg

Acute inhalation toxicity : LC50 (Rat): 41.6 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD50 Dermal (Rabbit): > 10,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks : No data available

Components:**Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified:**

Species : Rabbit

Exposure time : 72 h

Result : slight

1,2,4-Trimethylbenzene:

Species : Rabbit

Exposure time : 72 h

Result : slight

Remarks : Read-across from a similar material

cumene:

Species : Rabbit

Exposure time : 72 h

Result : slight

Serious eye damage/eye irritation

Causes serious eye irritation.

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Product:

Remarks : No data available

Components:**Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified:**

Species	: Rabbit
Result	: none

1,2,4-Trimethylbenzene:

Species	: Rabbit
Result	: slight

cumene:

Species	: Rabbit
Result	: slight
Exposure time	: 72 h

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

Components:**Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified:**

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

1,2,4-Trimethylbenzene:

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

cumene:

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

Germ cell mutagenicity

Not classified based on available information.

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Carcinogenicity

Not classified based on available information.

Product:

Remarks : This information is not available.

IARCGroup 2B: Possibly carcinogenic to humans
cumene 98-82-8**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**Reasonably anticipated to be a human carcinogen
cumene 98-82-8**Reproductive toxicity**

Not classified based on available information.

Product:

Effects on fertility : Remarks: No data available

STOT-single exposure

May cause respiratory irritation.

Product:

Remarks : No data available

STOT-repeated exposure

Not classified based on available information.

Product:

Remarks : No data available

Aspiration toxicity

May be fatal if swallowed and enters airways.

Product:

No data available

Components:**Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified:**

May be fatal if swallowed and enters airways.

1,2,4-Trimethylbenzene:

May be harmful if swallowed and enters airways.

cumene:

May be fatal if swallowed and enters airways.

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Experience with human 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.

Further information**Product:**

Remarks	:	None known.
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SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****1,2,4-Trimethylbenzene:**

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 7.72 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia magna (Water flea)): 3.6 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Chlorella pyrenoidosa): 2.356 mg/l Exposure time: 96 h

cumene:

Toxicity to fish	:	LC50 (Cyprinus carpio (Carp)): 4.8 mg/l Exposure time: 96 h LC50 (Fish): 4.918 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 2.14 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Desmodesmus subspicatus (green algae)): 2.01 mg/l Exposure time: 72 h NOEC (Desmodesmus subspicatus (green algae)): 1.49 mg/l Exposure time: 72 h

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Toxicity to fish (Chronic toxicity) : NOEC (Danio rerio (zebra fish)): 0.38 mg/l
Exposure time: 28 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.35 mg/l
Exposure time: 21 d

Persistence and degradability**Components:****1,2,4-Trimethylbenzene:**

Biodegradability : Concentration: 100 mg/l
Biodegradation: 8 - 14 %
Exposure time: 28 d

cumene:

Biodegradability : Concentration: 3 mg/l
Result: Readily biodegradable
Biodegradation: 70 %
Exposure time: 20 d

Chemical Oxygen Demand (COD) : 1,130 mg/g

ThOD : 3,500 mg/g

Bioaccumulative potential**Components:****1,2,4-Trimethylbenzene:**

Bioaccumulation : Bioconcentration factor (BCF): 33 - 275
Concentration: 0.2 mg/l

cumene:

Bioaccumulation : Bioconcentration factor (BCF): 94.69

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.

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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 (light aromatic solvent naphtha, petroleum)
Class	: 3
Packing group	: III
Labels	: 3
EmS Code	: F-E, <u>S-E</u>
Marine pollutant	: yes

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**

Not regulated as a dangerous good

Remarks	: combustible liquid, Packing group III for quantities of 450 liters (119 gallons) or more; not regulated for smaller quantities
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Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based on 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**CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ethylbenzene	100-41-4	100	100 (F003)
cumene	98-82-8	5000	

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

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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)
Skin corrosion or irritation
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)
Aspiration hazard
Acute toxicity (any route of exposure)

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

1,2,4- Trimethylben- zene	95-63-6
cumene	98-82-8

California Prop. 65

WARNING: This product can expose you to chemicals including cumene, 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
ISHL	: 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.

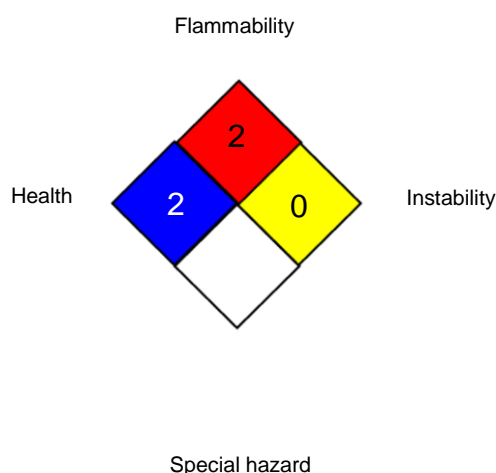
No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION**Further information**

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NFPA 704:**HMIS® IV:**

HEALTH	/	3
FLAMMABILITY		2
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	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA P0 / TWA	:	8-hour time weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; 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)

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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; TECL - Thailand Existing Chemicals 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 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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