according to the OSHA Hazard Communication Standard



DIMACIT TMTD-PDR-D

PRD / SDSUS / Z8 / 0001

Date of last issue: 09/25/2023 Version Revision Date: SDS Number: 1.11 08/15/2024 150000103780 Date of first issue: 09/06/2016

SECTION 1. IDENTIFICATION

Product name DIMACIT TMTD-PDR-D

Product code 51269-00, P5126915, N5126910, P5126910, P5126911,

> P5126926, P5126924, P5126923, P5126925, P5126922, P5126921, P5126920, P5126918, P5126916, N5126911

Manufacturer or supplier's details

Company name of supplier Eastman Chemical Company

Address 200 South Wilcox Drive

Kingsport TN 37660-5147

Telephone (423) 229-2000

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

Recommended use of the chemical and restrictions on use

Recommended use Rubber products

Restrictions on use None known.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity (Oral) Category 4

Acute toxicity (Inhalation) Category 4

Skin irritation Category 2

Eye irritation Category 2A

Skin sensitization Category 1

Specific target organ toxicity Category 2 (Liver)

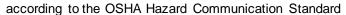
- repeated exposure (Oral)

GHS label elements

Hazard pictograms









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Signal Word Warning

Hazard Statements H302 + H332 Harmful if swallowed or if inhaled.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H373 May cause damage to organs (Liver) through prolonged or

repeated exposure if swallowed.

Precautionary Statements

Prevention:

P260 Do not breathe dust.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing must not be allowed out of

the workplace.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/ doctor if you feel unwell. Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. 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.

P333 + P313 If skin irritation or rash occurs: Get medical advice/

P337 + P313 If eye irritation persists: Get medical advice/ atten-

P362 Take off contaminated clothing and wash before reuse.

Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
tetramethylthiuram disulphide	137-26-8	>= 90 - <= 100
white mineral oil	8042-47-5	>= 1 - < 5





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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

General advice : Show this material safety data sheet to the doctor in

attendance.

Consult a physician.

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. Call a physician or poison control center immediately.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

If eye irritation persists: Get medical advice/ attention.

If swallowed : Call a physician or poison control center immediately.

Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and

deleved

delayed

Harmful if swallowed or if inhaled.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

May cause damage to organs through prolonged or repeated

exposure if swallowed. Irregular cardiac activity

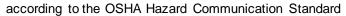
Dermatitis Eczema Headache Nausea

Shortness of breath

May produce an allergic reaction. Health injuries may be delayed.

More severe effects if alcohol is consumed.

Notes to physician : General advice for dithiocarbamates





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Biomonitoring possible at chronical exposure: determination of

TTCA in the urine at the end of the workday/week.

Bloodtesting for delayed effects: livertests, kidney function,

thyroid function

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use water spray to extinguish.

Carbon dioxide (CO2) Alcohol-resistant foam

Unsuitable extinguishing

media

Do NOT use water jet.

Specific hazards during fire

fighting

Avoid generating dust; fine dust dispersed in air in sufficient

concentrations, and in the presence of an ignition source is a

potential dust explosion hazard.

Hazardous combustion prod-

ucts

Carbon monoxide

Nitrogen oxides (NOx)

Sulfur oxides

Further information : Take precautionary measures against static discharges.

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, protec: : tive equipment and emer-

gency 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

Sweep up or vacuum up spillage and collect in suitable

container for disposal.

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 protection against

fire and explosion

Minimize dust generation and accumulation.

Keep product and empty container away from heat and

sources of ignition.

Advice on safe handling : Avoid breathing dust.

Do not get on skin or clothing.

Do not get in eyes.

according to the OSHA Hazard Communication Standard



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Do not swallow.

Ensure adequate ventilation. Wash thoroughly after handling.

Conditions for safe storage : Keep tightly closed.

Keep in a dry, cool and well-ventilated place.

Keep away from direct sunlight. Use only explosion-proof equipment.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
tetramethylthiuram disulphide	137-26-8	TWA (Inhal-	0.05 mg/m3	ACGIH
		able fraction		
		and vapor)		
		TWA	5 mg/m3	NIOSH REL
		TWA	5 mg/m3	OSHA Z-1
		TWA	5 mg/m3	OSHA P0
white mineral oil	8042-47-5	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhal-	5 mg/m3	ACGIH
		able particu-		
		late matter)		
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL

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 : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Effective dust mask

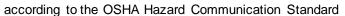
Hand protection

Remarks : Rubber gloves Neoprene gloves The data about break

through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove.

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

Face-shield





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Always wear eye protection when the potential for inadvertent

eye contact with the product cannot be excluded.

Skin and body protection : Complete suit protecting against chemicals

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.

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

practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Color : white, light brown

Odor : odorless

Odor Threshold : not determined

pH : 6.75 (68 °F / 20 °C)

Concentration: 4 %

Melting point/range : 291 - 295 °F / 144 - 146 °C

Boiling point/boiling range : 329 °F / 165 °C

Decomposition

Flash point : Not applicable

Evaporation rate : not determined

Flammability (solid, gas) : not auto-flammable

Upper explosion limit / Upper

flammability limit

not determined

Lower explosion limit / Lower

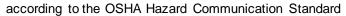
flammability limit

not determined

Vapor pressure : 0.00002 Pa (77 °F / 25 °C)

Relative vapor density : not determined

Relative density : No data available





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Density : 1.36 g/cm3 (68 °F / 20 °C)

Solubility(ies)

Water solubility : 0.018 g/l (68 °F / 20 °C)

Partition coefficient: n-

octanol/water

: log Pow: 1.84

Autoignition temperature : not determined

Decomposition temperature : 329 °F / 165 °C

Viscosity

Viscosity, dynamic : not determined

Viscosity, kinematic : Not applicable

Explosive properties : No data available

Oxidizing properties : Not classified

Surface tension : 71.5 mN/m, $68 \degree \text{F} / 20 \degree \text{C}$

SECTION 10. STABILITY AND REACTIVITY

Reactivity : None reasonably foreseeable.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac-

tions

Hazardous decomposition products formed under fire

conditions.

Dust can form an explosive mixture in air.

Conditions to avoid : Avoid dust formation.

Heat, flames and sparks.

Incompatible materials : Strong oxidizing agents

Strong acids

Hazardous decomposition

products

: Carbon monoxide

Carbon dioxide (CO2) Nitrogen oxides (NOx)

Sulfur oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed or if inhaled.

Product:

Acute oral toxicity : Remarks: Harmful if swallowed.

according to the OSHA Hazard Communication Standard



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Acute inhalation toxicity : Remarks: Harmful if inhaled.

Acute dermal toxicity : Remarks: No data available

Components:

tetramethylthiuram disulphide:

Acute oral toxicity : LD50 Oral (Rat): 1,800 mg/kg

Acute inhalation toxicity : LC50 (Rat): 4.42 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

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

Assessment: The substance or mixture has no acute dermal

toxicity

white mineral oil:

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks : Causes skin irritation.

Components:

tetramethylthiuram disulphide:

Species : Rabbit Exposure time : 4 h

Result : Skin irritation

white mineral oil:

Species : Rabbit Exposure time : 24 h Result : none

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks : Causes serious eye irritation.

Components:

tetramethylthiuram disulphide:

Species : Rabbit Result : irritating

according to the OSHA Hazard Communication Standard



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white mineral oil:

Species : Rabbit
Result : none
Exposure time : 24 h

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Product:

Remarks : May cause an allergic skin reaction.

Components:

tetramethylthiuram disulphide:

Test Type : Skin sensitization
Species : Guinea pig
Result : sensitizing

Germ cell mutagenicity

Not classified based on available information.

Product:

Germ cell mutagenicity -

Did not show mutagenic effects in animal experiments.

Assessment

Components:

white mineral oil:

Genotoxicity in vitro : Test Type: Mutagenicity - Bacterial Metabolic activation: +/- activation

Method: Bacterial Reverse Mutation Assay

Result: negative

Genotoxicity in vivo : Species: Mouse

Method: Mammalian Erythrocyte Micronucleus Test

Result: negative

Carcinogenicity

Not classified based on available information.

Components:

white mineral oil:

Species : Rat Application Route : Ingestion

Method : OECD Test No. 453: Combined Chronic Toxici-





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ty/Carcinogenicity Studies

Remarks : negative

IARC No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

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:

Reproductive toxicity - As-

Did not show teratogenic effects in animal experiments.

sessment

STOT-single exposure

Not classified based on available information.

Product:

Remarks : No data available

STOT-repeated exposure

May cause damage to organs (Liver) through prolonged or repeated exposure if swallowed.

Product:

Target Organs : Thyroid, Respiratory system, Kidney, Liver, Central nervous

system

Repeated dose toxicity

Components:

white mineral oil:

Species : Rat

NOAEL : >= 1,200 mg/kg
Application Route : Oral Study
Exposure time : 90 days

Aspiration toxicity

Not classified based on available information.

Product:

No data available

according to the OSHA Hazard Communication Standard



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Experience with human exposure

Product:

Inhalation : Remarks: Harmful if inhaled.

May cause damage to organs through prolonged or repeated

exposure.

Skin contact : Remarks: Causes skin irritation.

May cause an allergic skin reaction.

Eye contact : Remarks: Causes serious eye irritation.

Ingestion : Remarks: Harmful if swallowed.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

tetramethylthiuram disulphide:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.046 - 0.54

mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.011 - 0.139 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Chlorella pyrenoidosa): > 0.14 mg/l

Exposure time: 120 h

Toxicity to fish (Chronic tox-

icity)

NOEC (Pimephales promelas (fathead minnow)): 0.0046 mg/l

Exposure time: 33 d

Toxicity to microorganisms : IC50 (Bacteria): 3.11 mg/l

Exposure time: 3 h

white mineral oil:

Toxicity to fish : LL50 (Lepomis macrochirus (Bluegill sunfish)): > 100 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

LL50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

: EL50 (Pseudokirchneriella subcapitata (algae)): > 100 mg/l

Exposure time: 72 h

Persistence and degradability

Product:

Biodegradability : Result: Not readily biodegradable.

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Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Mobility in soil

Product:

Distribution among environ-

mental compartments

Koc: 2245 - 24526

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

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

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No. : UN 3077

Proper shipping name : Environmentally hazardous substance, solid, n.o.s.

(Thiram)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo : 956

aircraft)

Packing instruction (passen: 956

ger aircraft)

IMDG-Code

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Thiram)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
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

UN/ID/NA number : UN 3077

according to the OSHA Hazard Communication Standard



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Proper shipping name : Environmentally hazardous substances, solid, n.o.s.

(Thiram)

Class : 9 Packing group : III

Labels : CLASS 9 ERG Code : 171 Marine pollutant : no

Remarks : Shipping in package sizes of less than 5 L (liquids) or 5 KG

(solids) may lead to a non-regulated classification.

Special precautions for user

Remarks : Shipping in package sizes of less than 5 L (liquids) or 5 KG

(solids) may lead to a non-regulated classification.

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
tetramethylthiuram disulphide	137-26-8	10	10

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

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 : No SARA Hazards

SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

tetramethyl- 137-26-8

thiuram disul-

phide

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

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

AllC : On the inventory, or in compliance with the inventory

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

according to the OSHA Hazard Communication Standard



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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

NZIoC : On the inventory, or in compliance with the inventory

TECI: On the inventory, or in compliance with the inventory

TSCA list

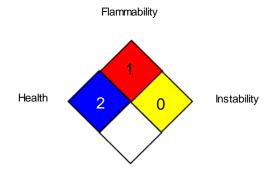
No substances are subject to a Significant New Use Rule.

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

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



Special hazard

HMIS® IV:



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 PO : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated

values)

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants



according to the OSHA Hazard Communication Standard

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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

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 Z-1 / TWA : 8-hour time weighted average

AllC - 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) 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; TECI - 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

Revision Date : 08/15/2024

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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