

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Metam CLR 42%

PRD / SDSUS / Z8 / 0330

Version	Revision Date:	SDS Number:	Date of last issue: 04/25/2022
1.7	07/18/2024	150000104092	Date of first issue: 09/06/2016

SECTION 1. IDENTIFICATION

Product name : Metam CLR 42%
Product code : P5105304

Manufacturer or supplier's details

Company name of supplier : Taminco US LLC
A Subsidiary of Eastman Chemical Company
Address : 200 South Wilcox Drive
Kingsport TN 37660
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 : Agrochemical (soil disinfectant)
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 corrosion : Category 1B
Skin sensitization : Category 1
Carcinogenicity : Category 2
Reproductive toxicity : Category 2
Specific target organ toxicity : Category 2
- repeated exposure
Corrosive to Metals : Category 1

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H290 May be corrosive to metals.
H302 Harmful if swallowed.
H332 Harmful if inhaled.

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H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements :

Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
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 should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.

Storage:

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

Disposal:

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

Other hazards

None known.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical name	CAS-No.	Concentration (% w/w)
metam sodium	137-42-8	>= 30 - < 50

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.
If breathing is difficult, give oxygen.
If not breathing, give artificial respiration.
Treat symptomatically.
If symptoms persist, call a physician. |
| In case of skin contact | : Wash off with soap and plenty of water.
Wash off immediately with plenty of water for at least 15 minutes.
Wash contaminated clothing before re-use.
In the case of skin irritation or allergic reactions see a physician. |
| In case of eye contact | : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If easy to do, remove contact lens, if worn.
Call a physician or poison control center immediately. |
| If swallowed | : Seek medical advice.
Do not induce vomiting without medical advice.
Never give anything by mouth to an unconscious person. |
| Most important symptoms and effects, both acute and delayed | : Health injuries may be delayed.
Liver disorders
Kidney disorders
Rash
Redness
Use of alcoholic beverages may enhance toxic effects
Harmful if swallowed.
Harmful if inhaled.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure. |
| 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: liver tests, kidney function, thyroid function
Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Water spray Carbon dioxide (CO ₂) Dry chemical
Unsuitable extinguishing media	: Do not use a solid water stream as it may scatter and spread fire.
Specific hazards during fire fighting	: Thermal decomposition can lead to release of irritating gases and vapors.
Hazardous combustion products	: Carbon oxides Nitrogen oxides (NO _x) Sulfur oxides
Further information	: Do not allow run-off from fire fighting to enter drains or water courses.
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	: 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	: Keep product and empty container away from heat and sources of ignition. Take precautionary measures against static discharges.
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.
Conditions for safe storage	: Store in a well-ventilated place. Keep container tightly closed.

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Keep out of reach of children.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

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.

Filter type : Filter type ABEK-P

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

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : light yellow

pH : 7.5 - 10.5
Concentration: 510 g/l

Melting point/freezing point : Not applicable

Boiling point/boiling range : 207 - 216 °F / 97 - 102 °C

Flash point : > 207 °F / > 97 °C

Evaporation rate : not determined

Flammability (solid, gas) : not auto-flammable

Upper explosion limit / Upper : not determined

SAFETY DATA SHEET

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Metam CLR 42%

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flammability limit

Lower explosion limit / Lower : not determined
flammability limit

Vapor pressure : 0.000575 hPa (77 °F / 25 °C)

Relative vapor density : not determined

Relative density : 1.21 (68 °F / 20 °C)

Density : 1.15 - 1.21 g/cm³

Solubility(ies)

Water solubility : 578.29 g/l (68 °F / 20 °C)

Partition coefficient: n- : log Pow: ≤ -2.91
octanol/water

Autoignition temperature : 752 °F / 400 °C

Decomposition temperature : 311 °F / 155 °C

Viscosity

Viscosity, dynamic : 4.7 mPa,s (68 °F / 20 °C)

2.8 mPa,s (104 °F / 40 °C)

Viscosity, kinematic : 3.8 mm²/s (68 °F / 20 °C)

2.3 mm²/s (104 °F / 40 °C)

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : None reasonably foreseeable.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac- : Corrosive in contact with metals
tions MITC vapor can be released during processing

Conditions to avoid : Heat, flames and sparks.

Take precautionary measures against static discharges.

Incompatible materials : Metals

Strong acids and oxidizing agents

Hazardous decomposition : Carbon dioxide (CO₂)
products Nitrogen oxides (NO_x)

Sulfur oxides

MITC vapor can be released during processing

SAFETY DATA SHEET

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1.7	07/18/2024	150000104092	Date of first issue: 09/06/2016

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed or if inhaled.

Product:

Acute oral toxicity	:	LD50 Oral (Rat): 896 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 2.54 mg/l Exposure time: 4 h
Acute dermal toxicity	:	LD50 Dermal: > 2,000 mg/kg

Components:

metam sodium:

Acute oral toxicity	:	LD50 (Rat): 896 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 2.54 mg/l Exposure time: 4 h Test atmosphere: vapor
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg

Skin corrosion/irritation

Causes severe burns.

Product:

Species	:	Rabbit
Result	:	Corrosive after 3 minutes to 1 hour of exposure

Components:

metam sodium:

Species	:	Rabbit
Result	:	Corrosive

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Assessment	:	Causes serious eye damage.
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Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

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Metam CLR 42%

PRD / SDSUS / Z8 / 0330

Version	Revision Date:	SDS Number:	Date of last issue: 04/25/2022
1.7	07/18/2024	150000104092	Date of first issue: 09/06/2016

Product:

Species : Guinea pig
Result : Causes sensitization.

Components:

metam sodium:

Species : Guinea pig
Result : Causes sensitization.

Germ cell mutagenicity

Not classified based on available information.

Product:

Germ cell mutagenicity - Assessment : Did not show mutagenic effects in animal experiments.

Components:

metam sodium:

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

Carcinogenicity

Suspected of causing cancer.

Product:

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

Components:

metam sodium:

Remarks : Limited evidence of a carcinogenic effect.

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

Suspected of damaging fertility.

Product:

Effects on fertility : Remarks: No data available

Reproductive toxicity - Assessment : Possible risk of harm to the unborn child.

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PRD / SDSUS / Z8 / 0330

Version	Revision Date:	SDS Number:	Date of last issue: 04/25/2022
1.7	07/18/2024	150000104092	Date of first issue: 09/06/2016

STOT-single exposure

Not classified based on available information.

Product:

Remarks : No data available

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Product:

Target Organs	:	Kidney, Nasal inner lining, Liver, Bladder
Assessment	:	May cause damage to organs through prolonged or repeated exposure.

Components:

metam sodium:

Target Organs	:	Kidney, Nasal inner lining, Liver, Bladder
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Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

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 burns. May cause an allergic skin reaction.
Eye contact	:	Remarks: Causes serious eye damage.
Ingestion	:	Remarks: Harmful if swallowed.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish	:	LC50 (Fish): 0.10 - 300 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.1 - 100 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Selenastrum capricornutum (green algae)): 0.1 - 10 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	IC50 (Bacteria): 10 - 100 mg/l

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Version	Revision Date:	SDS Number:	Date of last issue: 04/25/2022
1.7	07/18/2024	150000104092	Date of first issue: 09/06/2016

Exposure time: 3 h

Components:

metam sodium:

Toxicity to fish	:	LC50 (Fish): 0.0785 - 108 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.166 - 6.34 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Selenastrum capricornutum (green algae)): 0.117 - 0.556 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	IC50 (Bacteria): 4.36 mg/l Exposure time: 3 h

Persistence and degradability

Product:

Biodegradability : Remarks: Readily biodegradable

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Mobility in soil

Product:

Distribution among environmental compartments : Koc: < 50

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No.	:	UN 3267
Proper shipping name	:	Corrosive liquid, basic, organic, n.o.s. (metam sodium)

SAFETY DATA SHEET

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Version	Revision Date:	SDS Number:	Date of last issue: 04/25/2022
1.7	07/18/2024	150000104092	Date of first issue: 09/06/2016

Class : 8
Packing group : II
Labels : Corrosive
Packing instruction (cargo aircraft) : 855
Packing instruction (passenger aircraft) : 851

IMDG-Code

UN number : UN 3267
Proper shipping name : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (metam sodium)
Class : 8
Packing group : II
Labels : 8
EmS Code : F-A, S-B
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 3267
Proper shipping name : Corrosive liquid, basic, organic, n.o.s. (metam sodium)
Class : 8
Packing group : II
Labels : CORROSIVE
ERG Code : 153
Marine pollutant : yes(metam sodium)

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

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

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 : Acute Health Hazard
Chronic Health Hazard

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

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Metam CLR 42%

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1.7	07/18/2024	150000104092	Date of first issue: 09/06/2016

metam sodium 137-42-8

California Prop. 65

WARNING: This product can expose you to chemicals including metam sodium, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. 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	: Product contains substance(s) not listed on TSCA inventory.
AIIC	: On the inventory, or in compliance with the 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
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
NZloC	: 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 a Significant New Use Rule.

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

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

SECTION 16. OTHER INFORMATION

Further information

SAFETY DATA SHEET

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Metam CLR 42%

PRD / SDSUS / Z8 / 0330

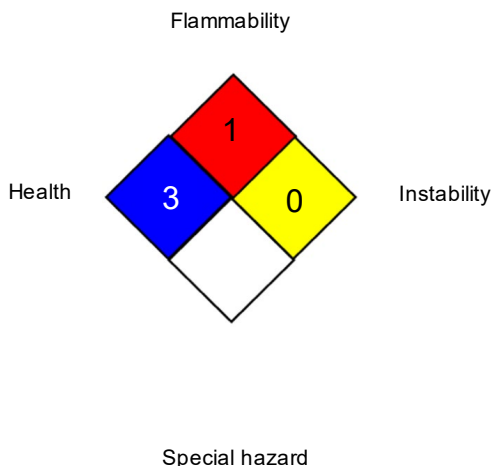
Version
1.7

Revision Date:
07/18/2024

SDS Number:
150000104092

Date of last issue: 04/25/2022
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NFPA 704:



HMIS® IV:

HEALTH	*	3
FLAMMABILITY		1
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

AIC - 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; IECS - 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; NZbC - 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

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1.7	07/18/2024	150000104092	Date of first issue: 09/06/2016

(United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 07/18/2024

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.

US / Z8