

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Dimethylacetamide (DMAc)

PRD / SDSUS / Z8 / 0001

Version	Revision Date:	SDS Number:	Date of last issue: 03/30/2022
1.8	05/09/2024	150000103648	Date of first issue: 09/06/2016

SECTION 1. IDENTIFICATION

Product name : Dimethylacetamide (DMAc)

Product code : 51093-00, C5109302, C5109301, N5109311, P5109314, P5109316, P5109318, P5109319, P5109321, P5109323, P5109324, P5109325, P5109326, N5109310, N5109312, C5109303, P5109328, P5109332

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

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

Recommended use of the chemical and restrictions on use

Recommended use : Solvent

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 4

Acute toxicity (Inhalation) : Category 4

Acute toxicity (Dermal) : Category 4

Eye irritation : Category 2A

Reproductive toxicity : Category 1B

GHS label elements

Hazard pictograms :

Signal Word : Danger

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Hazard Statements : H227 Combustible liquid.
H312 + H332 Harmful in contact with skin or if inhaled.
H319 Causes serious eye irritation.
H360D May damage the unborn child.

Precautionary Statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P261 Avoid breathing mist or vapors.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P302 + P352 + P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell.
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.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

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.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Pure substance

Components

Chemical name	CAS-No.	Concentration (% w/w)
N,N-dimethylacetamide	127-19-5	>= 90 - <= 100

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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. Call a physician immediately.
If inhaled	: Move to fresh air. If breathing is irregular or stopped, administer artificial respiration.
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.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If easy to do, remove contact lens, if worn.
If swallowed	: 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	: Harmful in contact with skin or if inhaled. Causes serious eye irritation. May damage the unborn child.
Notes to physician	: Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Carbon dioxide (CO ₂) Dry chemical Alcohol-resistant foam
Unsuitable extinguishing media	: Water spray jet
Specific hazards during fire fighting	: Thermal decomposition can lead to release of irritating gases and vapors.
Hazardous combustion products	: Nitrogen oxides (NO _x) Carbon monoxide

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No hazardous combustion products are known

Further information : Use water spray to cool unopened containers.

Combustible liquid and vapor.

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.
Do not flush into surface water or sanitary sewer system.

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).

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Keep product and empty container away from heat and sources of ignition.

Advice on safe handling : Do not swallow.
Do not get on skin or clothing.
Do not breathe vapors or spray mist.
Use only with adequate ventilation.
Wash thoroughly after handling.

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
N,N-dimethylacetamide	127-19-5		10 ppm 35 mg/m ³	
		TWA	10 ppm	ACGIH
		TWA	10 ppm 35 mg/m ³	NIOSH REL
		TWA	10 ppm 35 mg/m ³	OSHA Z-1

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		TWA	10 ppm 35 mg/m3	OSHA P0
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Engineering measures : Ensure adequate ventilation.

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.

Filter type : Organic vapor Type

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 : Safety glasses with side-shields
Face-shield

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 : colorless

Odor : ammoniacal

Odor Threshold : not determined

pH : 4 - 7
Concentration: 200 g/l

Melting point/freezing point : -4 °F / -20 °C

Boiling point/boiling range : 331 °F / 166 °C

Flash point : 151 °F / 66 °C

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Method: closed cup

Evaporation rate	:	not determined
Self-ignition	:	653 °F / 345 °C 1,013.25 hPa
Upper explosion limit / Upper flammability limit	:	11.5 %(V)
Lower explosion limit / Lower flammability limit	:	1.5 %(V)
Vapor pressure	:	2 hPa (71.1 °F / 21.7 °C)
Relative vapor density	:	3.02 (Air = 1.0)
Relative density	:	No data available
Density	:	0.94 g/cm ³ (68 °F / 20 °C)
Solubility(ies)	:	
Water solubility	:	> 1,000 g/l completely soluble (68 °F / 20 °C)
Partition coefficient: n-octanol/water	:	log Pow: -0.77 (77 °F / 25 °C)
Autoignition temperature	:	653 °F / 345 °C
Decomposition temperature	:	not determined
Viscosity	:	
Viscosity, dynamic	:	0.92 mPa,s (77 °F / 25 °C)
Viscosity, kinematic	:	not determined
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 reactions	:	Hazardous decomposition products formed under fire conditions.
Conditions to avoid	:	Heat, flames and sparks.

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Take precautionary measures against static discharges.
Exposure to moisture.

Incompatible materials : Strong acids and oxidizing agents

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

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful in contact with skin or if inhaled.

Product:

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: Harmful if inhaled.

Acute dermal toxicity : Remarks: Harmful in contact with skin.

Components:

N,N-dimethylacetamide:

Acute oral toxicity : LD₅₀ Oral (Rat, female): 4,800 mg/kg
LD₅₀ Oral (Mouse, male and female): 4,610 mg/kg
LD₅₀ Oral (Rabbit, male and female): 2,820 mg/kg

Acute inhalation toxicity : LC₅₀ (Rat, female): > 8.8 mg/l
Exposure time: 1 h
Test atmosphere: vapor

Acute dermal toxicity : LD₅₀ Dermal (Rabbit, male): 2,100 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks : No data available

Components:

N,N-dimethylacetamide:

Species : Rabbit
Exposure time : 24 h
Result : Non-irritating to the skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

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Product:

Remarks : Causes serious eye irritation.

Components:

N,N-dimethylacetamide:

Species	:	Rabbit
Result	:	irritating
Assessment	:	Causes serious eye irritation.

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:

N,N-dimethylacetamide:

Species	:	Guinea pig
Remarks	:	Did not cause sensitization on laboratory animals.

Germ cell mutagenicity

Not classified based on available information.

Components:

N,N-dimethylacetamide:

Genotoxicity in vitro	:	Test Type: Salmonella typhimurium assay (Ames test) Method: Bacterial Reverse Mutation Assay Result: negative
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	:	Test Type: Mutagenicity - Mammalian Method: OECD Guideline 482 Result: negative
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Genotoxicity in vivo	:	Species: Rat Method: Mammalian Bone Marrow Chromosome Aberration Test Result: negative
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	:	Species: Rat Method: Genetic Toxicology: Rodent Dominant Lethal Test Result: negative
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	:	Species: Mouse Method: Genetic Toxicology: Rodent Dominant Lethal Test Result: negative
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Germ cell mutagenicity - Assessment : Did not show mutagenic effects in animal experiments.

Carcinogenicity

Not classified based on available information.

Product:

Remarks : This information is not available.

Components:

N,N-dimethylacetamide:

Application Route : Inhalation
Remarks : May cause cancer.

Species : Rat, male and female
Application Route : Inhalation
Method : OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies
Remarks : Not classified

Species : Mouse, male and female
Application Route : Inhalation
Method : OECD Test No. 451: Carcinogenicity Studies
Remarks : Not classified

Carcinogenicity - Assessment : Did not show carcinogenic effects in animal experiments.

IARC Group 2B: Possibly carcinogenic to humans
N,N-dimethylacetamide 127-19-5

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

May damage the unborn child.

Product:

Effects on fertility : Remarks: No data available

Components:

N,N-dimethylacetamide:

Reproductive toxicity - Assessment : May damage the unborn child.

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STOT-single exposure

Not classified based on available information.

Product:

Remarks : No data available

STOT-repeated exposure

Not classified based on available information.

Product:

Remarks : No data available

Repeated dose toxicity

Components:

N,N-dimethylacetamide:

Species	: Rat, male and female
NOAEL	: 100 mg/kg bw/day
Application Route	: Oral
Exposure time	: 2 year
Method	: OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies
Target Organs	: Liver

Species	: Rat, male and female
NOAEL	: 94 mg/kg bw/day
Application Route	: Dermal Study
Exposure time	: 2 year
Method	: OECD Test No. 452: Chronic Toxicity Studies
Target Organs	: Liver

Species	: Rat, male and female
NOAEL	: 90 mg/m ³
Application Route	: Inhalation
Exposure time	: 2 year
Method	: OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies
Target Organs	: Liver

Aspiration toxicity

Not classified based on available information.

Product:

Not classified

Components:

N,N-dimethylacetamide:

Not classified

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Experience with human exposure

Product:

Inhalation	:	Remarks: Harmful if inhaled.
Skin contact	:	Remarks: Harmful in contact with skin.
Eye contact	:	Remarks: Causes serious eye irritation.
Ingestion	:	Remarks: None known.

Further information

Product:

Remarks	:	None known.
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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

N,N-dimethylacetamide:

Toxicity to fish	:	LC50 (Leuciscus idus (Golden orfe)): > 500 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 500 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Scenedesmus subspicatus): > 500 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	(Bacteria): > 2,000 mg/l Exposure time: 30 min

Persistence and degradability

Components:

N,N-dimethylacetamide:

Biodegradability	:	Biodegradation: 70 % Exposure time: 28 d Method: Ready Biodegradability: Modified MITI Test (I) Result: Readily biodegradable Biodegradation: 97 % Exposure time: 5 d Method: Inherent biodegradability: Zahn-Wellens/EMPA Test Biodegradation: 77 - 83 % Exposure time: 14 d Method: Inherent Biodegradability: Modified MITI Test (II)
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Bioaccumulative potential

Components:

N,N-dimethylacetamide:

Bioaccumulation : Remarks: Does not bioaccumulate.

Mobility in soil

Components:

N,N-dimethylacetamide:

Distribution among environmental compartments : Koc: 9.31, log Koc: 0.969

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : In accordance with local and national regulations. Waste must be classified and labeled prior to recycling or disposal.

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

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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	: NA 1993
Proper shipping name	: Combustible liquid, n.o.s. (N,N-Dimethylacetamide)
Class	: CBL
Packing group	: III
Labels	: NONE
ERG Code	: 128

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Marine pollutant : no
Remarks : Above applies only to containers over 119 gallons or 450 liters. Not regulated if shipped in packages less than or equal to 119 gallons (450 liters).

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 : Flammable (gases, aerosols, liquids, or solids)
Reproductive toxicity
Acute toxicity (any route of exposure)
Serious eye damage or eye irritation

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65

WARNING: This product can expose you to chemicals including N,N-dimethylacetamide, 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 : All substances listed as active on the 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
KECI : On the inventory, or in compliance with the inventory
PICCS : On the inventory, or in compliance with the inventory

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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

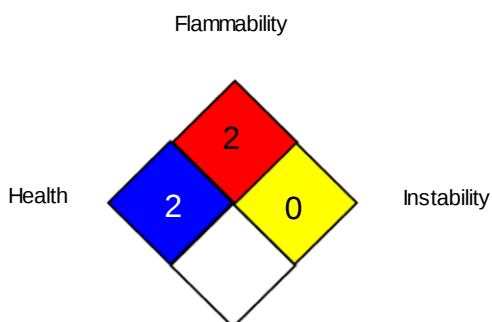
No substances are subject to a Significant New Use Rule.

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

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:

HEALTH	*	2
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

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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 : 05/09/2024

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