

SAFETY DATA SHEET

IGS SILICONE SEALANT - RED

Version: 1.0	Revision Date: 01/2025	MSDS Number: GHS – IGSRTVREDXTB	Date Completed: 01/01/2020
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SECTION 1. IDENTIFICATION

Product Name: IGS SILICONE SEALANT - Red

Manufacturer or supplier's details

Company name of supplier: IGS Industries

Address: 200 Country Club Road
Meadowlands, PA 15347

Telephone: 800-229-1447

Emergency Telephone: 24 Hour Emergency Telephone:
800-229-1447

Recommended use of the chemical and restrictions on use

Recommended use: Adhesive, binding agents

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS Label Element

Not a hazardous substance or mixture.

Precautionary Statements:

Prevention:

P271 Use only outdoors or in a well-ventilated area.

Other hazards:

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Chemical nature: Silicone elastomer

Hazardous Ingredients:

Chemical Name	CAS-No.	Concentration (%)
Silicon dioxide	7631-86-9	>= 5 - < 10
Distillates (petroleum), hydrotreated middle	64742-46-7	>= 5 - < 10
Titanium Dioxide	13463-67-7	>= 1 - < 5

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Aluminum	7429-90-5	>= 1 - < 5
Carbon Black	1333-86-4	>= 0.1 - < 1

SECTION 4. FIRST AID MEASURES

If inhaled:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
In case of eye contact:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed:	None known.
Protection of first-aiders:	No special precautions are necessary for first aid responders.
Notes to physician:	Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Water spray Alcohol-resistant foam Dry chemical Carbon dioxide (CO ₂)
Unsuitable extinguishing media:	None known.
Specific hazards during fire-fighting:	Exposure to combustion products may be a hazard to health.
Hazardous combustion products:	Carbon oxides Silicon oxides Formaldehyde Metal oxides
Specific extinguishing methods:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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	Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters:	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Follow safe handling advice and personal protective equipment recommendations.
Environmental precautions:	Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up:	Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures:	See Engineering measures under EXPOSURE CONTROLS/ PERSONAL PROTECTION section.
Local/Total ventilation:	Use only with adequate ventilation.
Advice on safe handling:	Handle in accordance with good industrial hygiene and safety practice. Take care to prevent spills, waste and minimize release to the

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environment.

Conditions for safe storage:

Keep in properly labeled containers.
Store in accordance with the particular national regulations.

Materials to avoid:

Do not store with the following product types:
Strong oxidizing agents.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters/ Permissible concentration	Basis
Silicon dioxide	7631-86-9	TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m ³ / %SiO ₂ (Silica)	OSHA Z-3
		TWA	6 mg/m ³ (Silica)	NIOSH REL
Disyllates (petroleum), hydrotreated middle	64742-46-7	TWA (Mist)	5 mg/m ³	OSHA Z-1
		TWA (Mist)	5 mg/m ³	OSHA P0
		TWA (Mist)	5 mg/m ³	NIOSH REL
		ST (Mist)	10 mg/m ³	NIOSH REL
Titanium dioxide	13463-67-7	TWA (total dust)	15 mg/m ³	OSHA Z-1
		TWA	10 mg/m ³ (Titanium dioxide)	ACGIH
Aluminium	7429-90-5	TWA (Respirable)	5 mg/m ³	NIOSH REL
		TWA (total)	10 mg/m ³	NIOSH REL
		TWA (total dust)	15 mg/m ³ (Aluminum)	OSHA Z-1
		TWA (respirable fraction)	5 mg/m ³ (Aluminum)	OSHA Z-1
		TWA (pyro powders)	5 mg/m ³ (Aluminum)	NIOSH REL

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		TWA (Respirable fraction)	1 mg/m ³ (Aluminum)	ACGIH
Carbon black	1333-86-4	TWA	3.5 mg/m ³	NIOSH REL
		TWA	3.5 mg/m ³	OSHA Z-1
		TWA (Inhalable fraction)	3mg/m ³	ACGIH

Engineering measures:

Processing may form hazardous compounds (see section 10).
Ensure adequate ventilation, especially in confined areas.
Minimize workplace exposure concentrations.

Personal protective equipment

Respiratory protection:

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection:

Remarks:

Wash hands before breaks and at the end of workday.

Eye protection:

Wear the following personal protective equipment:
Safety goggles

Skin and body protection:

Skin should be washed after contact.

Hygiene measures:

Ensure that eye flushing systems and safety showers are located close to the working place.
When using, do not eat, drink or smoke.
Wash contaminated clothing before re-use.
These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Paste
Color:	In accordance with the product description
Odor:	Acetic acid
Odor Threshold:	No data available
pH:	Not applicable
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	Not applicable
Flash point:	>100°C Method: closed cap
Evaporation rate:	Not applicable
Flammability (solid, gas):	Not classified as a flammability hazard
Upper explosion limit:	No data available
Lower explosion limit:	No data available
Vapor pressure:	Not applicable
Relative vapor density:	No data available
Relative density:	1.007
Solubility./(ies) Water solubility:	No data available
Partition coefficient: n-octanol/water:	No data available
Autoignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity Viscosity, dynamic:	Not applicable

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Explosive properties:	Not explosive
Oxidizing properties:	The substance or mixture is not classified as oxidizing.
Molecular weight:	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity:	Not classified as a reactivity hazard.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	Use at elevated temperatures may form highly hazardous compounds. Can react with strong oxidizing agents. Acetic acid is formed upon contact with water or humid air. When heated to temperatures above 150°C (300°F) in the presence of air, trace quantities of formaldehyde may be released. Adequate ventilation is required. See OSHA formaldehyde standard, 29 CFR 1910.1048. Hazardous decomposition products will be formed at elevated temperatures.
Conditions to avoid:	None known.
Incompatible materials:	Oxidizing agents.
Hazardous decomposition products:	
Thermal decomposition:	Formaldehyde

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SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute inhalation toxicity:

Acute toxicity estimate: > 10 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: Calculation method

Ingredients:

Silicon dioxide:

Acute oral toxicity:

LD50 (Rat): > 3,300 mg/kg

Assessment: The substance or mixture has no acute oral toxicity

Remarks: Information taken from reference works and the literature.

Acute inhalation toxicity:

LC50 (Rat):> 2.08 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhalation toxicity

Remarks: Information taken from reference works and the literature.

Acute dermal toxicity:

LD50 (Rabbit): > 5,000 mg/kg

Assessment: The substance or mixture has no acute dermal toxicity.

Remarks: Information taken from reference works and the literature.

Distillates (petroleum), hydrotreated middle::

Acute oral toxicity:

LD50 (Rat): >5,000 mg/kg

Acute inhalation toxicity:

LD50 (Rat): >5,000 mg/kg

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LC50 (Rat): 1.78 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity:

LD50 (Rat): >2,000 mg/kg

Titanium dioxide:

Acute oral toxicity:

LD50 (Rat) > 5,000 mg/kg

Acute inhalation toxicity

LC50 (Rat) > 6.82 mg/l
Exposure time 4 h
Test atmosphere dust/mist
Assessment The substance or mixture has no acute inhalation toxicity

Aluminium:

Acute oral toxicity

LD50 (Rat) > 5,000 mg/kg Method
OECD Test Guideline 401
Remarks Based on data from similar materials

Acute inhalation toxicity

LC50 (Rat) > 0.888 mg/l

Exposure time 4 h
Test atmosphere dust/mist
Method OECD Test Guideline 403
Assessment The substance or mixture has no acute inhalation toxicity

Carbon black:

Acute oral toxicity

Acute inhalation toxicity

LD50 (Rat) > 5,000 mg/kg

LC50 (Rat) > 0.0046 mg/l

Exposure time 4 h
Test atmosphere dust/mist
Assessment The substance or mixture has no acute inhalation toxicity

Skin corrosion/irritation

Not classified based on available information.

Ingredients:

Silicon dioxide:

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Result: No skin irritation

Remarks: Information taken from reference works and the literature.

Titanium dioxide:

Species Rabbit

Result: No skin irritation

Aluminum:

Species Rabbit

Result: No skin irritation

Carbon Black:

Species Rabbit

Result: No skin irritation

Serious eye damage/eye irritation:

Not classified based on available information.

Ingredients:

Silicon dioxide:

Result: No eye irritation

Remarks: Information taken from reference works and the literature.

Titanium dioxide:

Species Rabbit

Result: No eye irritation

Aluminum:

Species Rabbit

Result: No eye irritation

Carbon Black:

Species Rabbit

Result: No eye irritation

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

Ingredients:

Silicon dioxide:

Assessment: Does not cause skin sensitization.

Test Type: Skin: test type not specified

Species: Guinea pig

Remarks: No known sensitizing effect.

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Information taken from reference works and the literature.

Titanium dioxide:

Test Type Local lymph node assay
(LLNA) Routes of exposure Skin
contact Species Mouse
Result negative

Aluminium:

Routes of exposure Skin contact
Species Guinea pig
Result negative
Remarks Based on data from similar materials

Carbon black:

Test Type Buehler Test
Routes of exposure Skin
contact Species Guinea
pig
Method OECD Test Guideline
406 Result negative

Germ cell mutagenicity

Not classified based on available information.

Ingredients:

Silicon dioxide:

Genotoxicity in vitro:

Result: negative

Remarks: Information taken from reference works and the literature.

Genotoxicity in vivo

Application Route Ingestion

Result negative

Remarks Information taken from reference works and the literature

Germ cell mutagenicity – Assessment:

Animal testing did not show any mutagenic effects.

Titanium Dioxide:

Genotoxicity in vitro:

Test Type Bacterial reverse mutation assay (AMES).

Result negative

Genotoxicity in vivo

Application Route Ingestion

Result negative

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Aluminum:

Genotoxicity in vitro:

Test Type In vitro mammalian cell gene mutation test

Method OECD Test Guideline 476

Result negative

Genotoxicity in vivo

Test Type In vivo micronucleus test

Species Rat

Application Route Ingestion

Method OECD Test Guideline 474

Result negative

Remarks Based on data from similar materials

Carbon Black:

Genotoxicity in vitro:

Result: negative

Remarks: Information taken from reference works and the literature.

Genotoxicity in vivo

Application Route Ingestion

Result negative

Remarks Information taken from reference works and the literature

Germ cell mutagenicity – Assessment:

Animal testing did not show any mutagenic effects.

Carcinogenicity

Not classified based on available information.

Titanium Dioxide

Species: Rat

Application route inhalation (dust/mist/fume)

Exposure time 24 months

Method OECD Test guideline 453

Result POSITIVE

Remarks: The mechanism or mode of action may not be relevant in humans. The substance is inextricably bound in the product and therefore does not contribute to a dust inhalation hazard

Aluminum

Species: Rat

Application route inhalation

Exposure time 86 weeks

Result: Negative

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Carbon Black

Species: Rat

Application route inhalation

Exposure time 24 months

Result: POSITIVE

Target organs : Lungs

Remarks The substance is inextricably bound in the product and therefore does not contribute to a dust inhalation hazard

Carcinogenicity Assessment Sufficient evidence of carcinogenicity in inhalation studies with animals.

IARC

Group 2B possibly carcinogenic to humans

Titanium Dioxide 13463-67-7

Carbon Black 1333-86-4

OSHA

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Ingredients:

Aluminium:

Effects on fertility

Test Type Combined repeated dose toxicity study with
The reproduction/developmental toxicity
screeningtest Species Rat
Application Route Ingestion
Method OECD Test
Guideline 422 Result
negative
Remarks Based on data from similar materials

Effects on fetal development

Test Type Embryo-fetal development
Species Mouse
Application Route
Ingestion Result
negative

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STOT-single exposure

Not classified based on available information.

Ingredients:

Carbon black:

Routes of exposure inhalation (dust/mist/fume)

Assessment No significant health effects observed in animals at concentrations of 0.2 mg/l/6h/d or less.

Repeated dose toxicity

Ingredients:

Titanium dioxide:

Species Rat
NOAEL 24,000
mg/kg

Application Route
Ingestion Exposure time
28 d

Species Rat
NOAEL 10
mg/m3

Application Route inhalation (dust/mist/fume)
Exposure time 2 y

Remarks The substance is inextricably bound in the product and therefore does not contribute to a dust inhalation hazard.

Carbon black:

Species Rat
NOAEL 1
mg/m3
LOAEL 7 mg/m3

Application Route
Inhalation Test
atmosphere dust/mist
Exposure time 90 d

Remarks The substance is inextricably bound in the product and therefore does not contribute to a dust inhalation hazard.

Aspiration toxicity

Not classified based on available information.

Ingredients:

Distillates (petroleum), hydrotreated middle:

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Acute toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Exotoxicity

Ingredients:

Titanium dioxide:

Toxicity to fish

LC50 (Oncorhynchus mykiss (rainbow trout)) > 100 mg/l
Exposure time 96 h
Method OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

EC50 (Daphnia magna (Water flea)) > 100 mg/l
Exposure time 48 h

Toxicity to algae

EC50 (Skeletonema costatum (marine diatom)) > 10,000 mg/l
Exposure time 72 h

Toxicity to bacteria

EC50 > 1,000 mg/l
Exposure time 3 h
Method OECD Test Guideline 209

Aluminium:

Toxicity to fish

LC50 (Oncorhynchus mykiss (rainbow trout)) 14.6 mg/l
Exposure time 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 (Daphnia magna (Water flea)) > 0.135 mg/l
Exposure time 48 h
Method OECD Test Guideline 202

Toxicity to algae

Remarks No toxicity at the limit of solubility.
EC50 (Pseudokirchneriella subcapitata (green algae)) > 0.004 mg/l
Exposure time 72 h
Method OECD Test Guideline 201

Toxicity to fish (Chronic toxicity)

Remarks No toxicity at the limit of solubility.
NOEC (Pimephales promelas (fathead minnow)) 7.1 mg/l
Exposure time 28 d

Carbon black:

Toxicity to fish

LC0 (Danio rerio (zebra fish)) 1,000 mg/l
Exposure time 96 h
Method OECD Test Guideline 203

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Toxicity to daphnia and other aquatic invertebrates

EC50 (Daphnia magna (Water flea)) > 5,600 mg/l
Exposure time 24 h
Method OECD Test Guideline202

TOXICITY TO ALGAE

NOEC (Desmodesmus subspicatus (green algae))
10,000mg/l
Exposure time 72 h
Method OECD Test Guideline201

Persistence and degradability

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Resource Conservation and Recovery Act (RCRA):

This product has been evaluated for RCRA characteristics and does not meet the criteria of hazardous waste if discarded in its purchased form.

Waste from residues:

Dispose of in accordance with local regulations.

Contaminated packaging:

Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT CONSIDERATIONS

International Regulation

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II or MARPOL 73/78 and the IBC Code

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Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

EPCRA – Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Acetic acid	64-19-7	5000	*
Acetic anhydride	108-24-7	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards: No SARA Hazards.

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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.

US State Regulations

Pennsylvania Right To Know

Dimethyl siloxane, hydroxyl-terminated	70131-67-8	70 - 90 %
Silicon dioxide	7631-86-9	5 – 10%
Distillates (petroleum), hydrotreated middle	64742-46-7	5 – 10%
Iron Oxide	1332-37-2	1-5%
Titanium Dioxide	13463-67-7	1-5%
Aluminum	7429-90-5	1-5%
Acetic acid	64-19-7	0 – 0.1%
Acetic anhydride	108-24-7	0 – 0.1%

New Jersey Right To Know

Dimethyl siloxane, hydroxyl-terminated	70131-67-8	70 - 90%
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Silicon dioxide	7631-86-9	5 - 10%
Distillates (petroleum), hydrotreated middle	64742-46-7	5 - 10%
Iron Oxide	1332-37-2	5 – 10%
Titanium Dioxide	13463-67-7	
Aluminum	7429-90-5	
Carbon Black	1333-86-4	

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:

AICS:	All ingredients listed or exempt.
IECSC:	All ingredients listed or exempt
PICCS:	All ingredients listed or exempt.
DSL:	All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).
REACH:	All ingredients (pre-)registered or exempt.
TSCA:	All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical substances.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA).

SECTION 16. OTHER INFORMATION

Further Information

NFPA:

HMIS III:

HEALTH	1
FLAMMABILITY	1

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PHYSICAL HAZARD	0
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Full text of other abbreviations

NIOSH REL:	USA. NIOSH Recommended Exposure Limits.
OSHA PO:	USA. OSHA – Table Z-1 Limits for Air Contaminants – 1910.1000
OSHA Z-1	USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants.
OSHA Z-3:	USA. Occupational Exposure Limits (OSHA) – Table Z-3 Mineral Dusts.
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 PO / TWA:	8-hour time weighted average.
OSHA Z-1 / TWA:	8-hour time weighted average.
OSHA Z-3 / TWA:	8-hour time weighted average.

Sources of key data used to compile the Material Safety Data Sheet: Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Revision Data: 01/2025

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8