

SAFETY DATA SHEET

GENERAL PURPOSE SEALANT - ALUMINUM

Version: 1.0	Revision Date: 02/2015	MSDS Number: GHS – 15017 – GP-AL	Date Completed: 08/2015
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SECTION 1. IDENTIFICATION

Product Name: General Purpose Sealant - Aluminum

Manufacturer or supplier's details

Company name of supplier: JIT Silicones Plus

Address: 5 Industrial Park Drive
Oakdale, PA 15071

Telephone: 855-548-7587

Emergency Telephone: 24 Hour Emergency Telephone:
CHEMTREC: (800) 424-9300

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	13463-46-7	>= 1 - < 5
Aluminum	7429-90-5	>= 1 - < 5
Carbon black	1333-86-4	>= 0.1 - < 1

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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. 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.

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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 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.

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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 PO
		TWA (Mist)	5mg/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
Aluminum	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
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)	3 mg/m ³	ACGIH

Engineering measures:

Processing may form hazardous compounds (see section 10). Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations. Dust formation may be relevant in the processing of this product. In addition to substance-specific OELs, general limitations of concentrations of particulates in the air at work – places have to be considered in workplace risk assessment. Relevant limits include OSHA PEL for Particulates Not Otherwise Regulated of 15 mg/m³ – total dust, 5 mg/m³ – respirable fraction; and ACGIH TWA for Particles (insoluble or poorly

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soluble) Not Otherwise Specified of 3 mg/m³ – respirable particles. 10 mg/m³ – inhalable particles.

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 glasses.

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.

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

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Flash point:	>100°C Method: closed cup
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
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

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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

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely route 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.
Remakrs: 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

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	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	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.
Aluminum: 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 Assessment: The substance or mixture has no acute inhalation toxicity.
Carbon black: Acute oral toxicity	LD50 (Rat) > 5,000 mg/kg

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Acute inhalation toxicity

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:

Result: No skin irritation.

Remarks: Information taken from reference works and the literature.

Titanium dioxide:

Species: Rabbit

Result: No skin irritation

Aluminum:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Remarks: Based on data from similar materials.

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

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Aluminum:

Species: Rabbit
Result: No eye irritation
Remarks: Based on data from similar materials.

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.

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

Aluminum:

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

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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

Test Type: In vivo micronucleus test

Species: Mouse

Result: negative

Aluminum:

Genotoxicity in vitro

Test Type: In vitro mammalian cell gene mutation test.

Method: OECD Test Guideline 476

Result: negative

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

Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

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Carcinogenicity

Not classified based on available information.

Ingredients

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.

Carcinogenicity – Assessment: Limited evidence of carcinogenicity in inhalation studies with animals.

Aluminum:

Species: Rat

Application Route: Inhalation (dust/mist/fume)

Exposure time: 86 weeks

Result: negative

Carbon black:

Species: Rat

Application Route: Inhalation (dust/mist/fume)

Exposure time: 86 weeks

Result: negative

Carbon black:

Species: Rat

Application Route: Inhalation

Exposure time: 2 Years

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.

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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 or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Ingredients:

Aluminum:

Effects on fertility:

Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test.

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

STOT-single exposure

Not classified based on available information.

STOT-repeated 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 0.1 mg/l/6h/d or less.

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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:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

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

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Toxicity to daphnia and other aquatic invertebrates:

EC 50 (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

Aluminum:

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
Remarks: No toxicity at the limit of solubility.

Toxicity to algae:

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

Toxicity to fish (Chronic toxicity)

NOEC (Pimephales promelas (fathead minnow)) 7.1 mg/l
Exposure time: 28 d

Carbon black:

Toxicity to fish:

LCO (Danio rerio (Zebra fish)) 1,000 mg/l
Exposure time: 24 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna (Water flea)) > 5,600 mg/l
Exposure time: 24 h
Method: OECD Test Guideline 202

Toxicity to algae:

NOEC (Desmodesmus subspicatus (green algae)) 10,000 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Persistence and degradability

No data available

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Bioaccumulative potential

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

Not applicable for product as supplied.

Domestic regulation**49 CFR**

Not regulated as a dangerous good

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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 anhydride	108-24-7	5000	*
Acetic acid	64-19-7	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: The following components are subject to reporting levels established by SARA Title III, Section 313.

Aluminum	7429-90-5	1.6%
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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%
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	13453-67-7	1 - 5%
Aluminum	7429-90-5	1 - 5%
Carbon black	1333-86-4	0.1 - 1%

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.

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The ingredients of this product are reported in the following inventories:

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.
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).

Inventories

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

SECTION 16. OTHER INFORMATION

Further Information

NFPA:



HMIS III:

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0

Full text of other abbreviations

ACGIH

USA. ACGIH Threshold Limit Values (TLV)

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.

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OSHA Z-3:	USA. Occupational Exposure Limits (OSHA) – Table Z-3 Mineral Dusts.
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 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:	02/25/2015

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