



SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER

Product Name : Silicone

Product Code : TS-550

Intended Use(s) : To provide enhanced bonding to silicone products

CONTACT INFORMATION FOR SUPPLIER OF SAFETY DATA SHEET

Factor II, Incorporated
PO Box 1339
5642 White Mountain Ave
Lakeside AZ 85929
928-537-8387
800-332-8688
www.factor2.com
sales@factor2.com

EMERGENCY TELEPHONE NUMBERS

Factor II, Incorporated 1 928 368 7502

SECTION 2: HAZARD(S) IDENTIFICATION

GHS Classification

Hazard class : Flammable liquid, Category 2
Skin irritation, Category 2
Eye irritation, Category 2A
Reproductive toxicity, Category 2
STOT-single exposure, Category 3
Aspiration hazard, Category 1
Acute aquatic toxicity, Category 1

Hazard Pictogram(s) :



Signal word :

Danger

Hazard statement(s) :

H225 Highly flammable liquid and vapor
H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness



H361 Suspected of damaging fertility or the unborn child
H371 May cause damage to organs (vasculature)
H400 Very toxic to aquatic life

Precautionary statement(s) :

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 flame/hot surfaces. No smoking.
- P233 Keep container tightly closed
- P240 Ground/bond container and receiving equipment
- P241 Use explosion-proof electrical/ventilating/lighting equipment
- P242 Use only non-sparking tools
- P243 Take precautionary measures against static discharge
- P260 Do not breathe dust/fumes/gas/mist/vapor/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
- P273 Avoid release to the environment
- P281 Use personal protective equipment as required

Response

- P301 + P310 + P331 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. DO NOT induce vomiting.
- P303 + P361 + P364 + P353 + P314 IF ON SKIN (or hair): Immediately remove all contaminated clothing and wash before reuse. Rise skin with water/shower. Seek medical attention if you feel unwell.
- P304 + P340 + P314 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if you feel unwell.
- P305 + P351 + P338 + P314 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if you feel unwell.

Storage

P403 + P405 + P233 + P235 Store locked up in a well-ventilated place. Keep container cool and tightly closed.

Disposal

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

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Concentration
Cyclohexane	110-82-7	<95% by weight
Silicone dioxide amorphous	112945-52-5	>2% by weight
Proprietary ingredient		>2% by weight



The specific chemical identities have been withheld as a trade secret.

SECTION 4: FIRST-AID MEASURES

In the case of accident or if you feel unwell, see medical attention immediately. When symptoms persist, or in all cases of doubt, seek medical attention.

First-aid instructions by relevant routes of exposure include:

- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if symptoms persist or after a significant exposure.
- Skin contact** : Immediately wash thoroughly with soap and water while removing contaminated clothing and shoes. Seek medical attention. Wash clothing and thoroughly clean shoes before reuse.
- Eye contact** : Immediately flush eyes with plenty of water for at least 15 minutes. If worn and easy to do, remove contact lenses.
- Ingestion** : Keep respiratory tract clear. DO NOT induce vomiting. Do not give anything to drink. Never give anything by mouth to an unconscious person. Seek medical attention immediately.
- Most important symptoms and effects, both acute and delayed** : Symptoms of poisoning may appear several hours later. Do not leave victim unattended.
- First aid responders:** First aid responders should pay attention to self-protection and use the recommended personal protective equipment when the potential for exposure exists.
- Note to physician** : Treat symptomatically and supportively.

SECTION 5: FIRE-FIGHTING MEASURES

- Suitable extinguishing media** : Alcohol-resistant foam, carbon dioxide (CO₂), dry chemical
- Unsuitable extinguishing media:** High volume water jet
- Specific hazards during fire** : Collect contaminated fire extinguishing water separately; do not allow run-off from firefighting to enter drains or water courses. Fire residues and contaminated water must be disposed of in accordance with local regulations. Take precautions to avoid static electricity discharge (which may cause ignition of organic vapors).



Hazardous decomposition products : Carbon dioxide, carbon oxides

Specific extinguishing methods: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Evacuate area and eliminate sources of ignition. Use water spray to cool unopened containers. Remove undamaged containers from fire area if safe to do so.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Firefighting equipment should be thoroughly decontaminated after use.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions and emergency procedures : Remove all sources of ignition, ventilate the area and keep upwind. 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. Prevent spreading over a wide area by containment or oil barriers. Retain and dispose of contaminated wash water. Spills on porous surfaces can contaminate groundwater. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleanup procedures : Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapors/mist with a water spray jet. 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. See Sections 13 and 15 of this SDS for information regarding certain local or national requirements.

SECTION 7: HANDLING AND STORAGE

Technical measures : Ensure all equipment is electrically grounded before beginning transfer operations. This material can accumulate static charge due to its inherent physical properties and can therefore cause an electrical ignition source to vapors. In order to prevent a fire hazard, as bonding and grounding may be insufficient to remove static electricity, it is necessary to provide an inert gas purge



before beginning transfer operations. Restrict flow velocity in order to reduce the accumulation of static electricity.

Local/total ventilation : Use with local exhaust ventilation. Use only in an area equipped with explosion proof exhaust ventilation.

Precautions for safe handling : Do not get on skin or clothing. Do not breathe vapors or spray mist. Do not swallow. Do not get in eyes. Handle in accordance with good industrial hygiene and safety practice. Non-sparking tools should be used. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Keep container tightly closed. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage : Keep away from food, drink and animal feeding stuffs. Keep container tightly closed and in a cool, well-ventilated place away from heat, sparks and flame. For safety reasons in case of fire, cans should be stored separately in closed containments. Store in accordance with the particular national regulations. Protect containers from physical damage.

Materials to avoid : May react with oxygen and strong oxidizing agents such as chlorates, nitrates, peroxides, etc.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA HAZARDOUS COMPONENTS					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Component Name, CAS Number		ppm	mg/m ³	ppm	mg/m ³
Cyclohexane, 110-82-7	TWA	300	1050	100	
	STEL				

Engineering Controls: Minimize workplace exposure concentrations. Use only in an area equipped with explosion proof exhaust ventilation. Use with local exhaust ventilation.

Personal Protective Equipment

Pictograms :



Respiratory : 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.

- Eye/Face** : Use safety goggles as a minimum when working with chemicals.
- Hands** : Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. For special applications, clarify the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands thoroughly before breaks and at the end of workday.
- Skin/Body** : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Wear the following personal protective equipment: flame retardant antistatic protective clothing. Avoid skin contact by using protective clothing (gloves, aprons, boots, etc.).
- 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. For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these type of materials in consumer aerosol applications that has been developed by the silicone industry (www.SEHSC.com).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Clear liquid
Upper/lower flammability or explosive limits	:	Undetermined
Odor	:	Ether-like
Vapor pressure	:	77mm Hg at 20°C
Odor threshold	:	No data available
Vapor density (air = 1.0)	:	2.9
pH	:	Not applicable
Relative density	:	Undetermined
Melting point/freezing point:	:	44°F (7°C) / Undetermined
Solubility(ies)	:	Very slight in water
Initial boiling point and boiling range	:	177°F (81°C)
Flash point	:	1°F (-18°C) (closed cup)
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available



Partition coefficient

n-octanol/water : No data available
Auto-ignition temperature : 500°F (260°C)
Decomposition temperature : No data available
Viscosity : No data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity : Non-reactive
Chemical stability : Stable
Conditions to avoid : Heat, sparks and flames
Incompatible materials : May react with oxygen and strong oxidizing agents such as chlorates, nitrates, peroxides, etc.
Other : Hazardous polymerization will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE - Inhalation, skin contact, ingestion, eye contact

ACUTE TOXICITY - Not classified based on available information

Ingredients

Cyclohexane

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity: LC50 (Rat): > 32,880 mg/m³
Exposure time: 4 h
Test atmosphere: vapor
Method: OECD Test Guideline 403

Acute dermal toxicity : May cause skin irritation in susceptible persons

SKIN CORROSION/IRRITATION – May cause skin irritation in susceptible persons

SERIOUS EYE DAMAGE/EYE IRRITATION – No adverse effects expected. Vapors may cause eye irritation.

RESPIRATORY AND SKIN SENSITIZATION – Did not cause sensitization on laboratory animals. Vapors may cause respiratory system irritation.

GERM CELL MUTAGENICITY – Animal testing did not show any mutagenic effects

CARCINOGENICITY - Not classified based on available information



- 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 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 - No evidence of adverse effects on sexual function and fertility, based on animal experiments.

STOT-SINGLE EXPOSURE – No adverse effects expected

STOT-REPEATED EXPOSURE – Not classified based on available information

REPEATED DOSE TOXICITY – Not classified based on available information

ASPIRATION TOXICITY – May be fatal if swallowed and enters airways.

FURTHER INFORMATION

Ingredients

Cyclohexane

- Remarks : Symptoms of overexposure may include headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TVL value may cause narcotic effects. Solvents may degrease the skin.

SECTION 12: ECOLOGICAL INFORMATION

Cyclohexane

Toxicity to fish

- LC50 : Pimephales promelas (fathead minnow) 4.53 mg/l
- Exposure time : 96 h
- Method : OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

- EC50 : Daphnia magna (water flea) 0.9 mg/l
- Exposure time : 48 h
- Method : OECD Test Guideline 202

Toxicity to algae

- EbC50 : Selenastrum capricornutum (algae) 3.4 mg/l
- Exposure time : 72 h
- NOEC : 0.925 mg/l
- Exposure time : 72 h
- Species : Pseudokirchneriella subcapitata (green algae)
- Method : OECD Test Guideline 201



PERSISTENCE AND DEGRADABILITY

Ingredients

Cyclohexane

Biodegradability

Result : Expected to be readily biodegradable

Biodegradation : 77%

Exposure time : 28 d

Method : OECD Test Guideline 301F

BIOACCUMULATIVE POTENTIAL – This material is not expected to bioaccumulate

Bioconcentration factor : 33 - 275

(BCF)

MOBILITY IN SOIL - No data available

OTHER ADVERSE EFFECTS – The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Product : This product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container.

Resource Conservation and Recovery Act (RCRA) : When a decision is made to discard this material as supplied, it is classified as a RCRA hazardous waste.

Waste Code : U056

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

Contaminated packaging : Dispose of as unused product. Do not re-use empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: TRANSPORT INFORMATION

US DOT

Proper shipping name : Cyclohexane UN

number : UN1145

Hazard class(es) : 3

Packing group : II

Labels : Flammable liquids

ERG Code : 128

IATA and ICAO

Proper shipping name : Cyclohexane UN

number : UN1145

Hazard class(es) : 3



Packing group : II
Labels : Flammable liquids
Packing instructions : Passenger / Cargo aircraft – 353

SECTION 15: REGULATORY INFORMATION

EPCRA - EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW

CERCLA Reportable Quantity

Ingredients	CAS Number	Component RQ (lbs)
Cyclohexane	110-82-7	5,000

SARA 311/312 Hazards : Fire hazard
Acute health hazard

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:
Cyclohexane 110-82-7 95%

US STATE REGULATIONS

Massachusetts Right To Know

Cyclohexane 110-82-7 95%

New Jersey Right To Know

Cyclohexane 110-82-7 95%

Pennsylvania Right To Know

Cyclohexane 110-82-7 95%

Rhode Island Right To Know

Cyclohexane 110-82-7 95%

California Prop 65 This product contains no chemical(s) known in the State of California to cause birth defects or other reproductive harm.

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

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

- NZIoC All ingredients listed or exempt
- 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
- ENCS/ISHL All components are listed on ENCS/ISHL or exempted from inventory listing

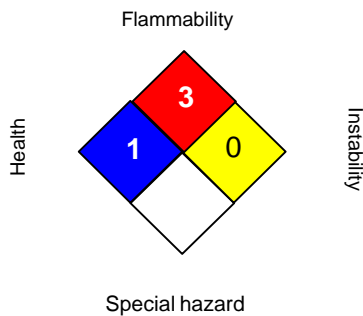


KECI All ingredients listed, exempt or notified
PICCS All ingredients listed or exempt
DSL All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List(DSL)

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

SECTION 16: OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	1
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight, 2 = Moderate,
3 = High 4 = Extreme, * = Chronic

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER

Product Name Silicone Elastomer
Product Code A-RTV-4020 C
Intended Use(s) : For professional use only

CONTACT INFORMATION FOR SUPPLIER OF SAFETY DATA SHEET

Factor II, Incorporated
5642 White Mountain Ave
PO Box 1339
Lakeside AZ 85929
928-537-8387
www.factor2.com
sales@factor2.com

EMERGENCY TELEPHONE NUMBERS

928- 368-7502

SECTION 2: HAZARD IDENTIFICATION



Hazard Classification Not a hazardous substance or mixture according to GHS.

Label Elements

Hazard Symbol No symbol.

Signal Word No signal word.

Hazard Statement Not applicable.

Precautionary Statements

Prevention Not applicable.

Response Not applicable.

Storage Not applicable.

Disposal Not applicable.

Other hazards which do not result in GHS classification

Chemical compounds containing silicon - hydrogen bonds (SiH). This product may generate hydrogen gas. For further information, refer to Section 10: "Stability and Reactivity".

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Composition Comments Mixture of Polyorganosiloxanes, fillers.

SECTION 4: FIRST AID MEASURES

General information For further information refer to section 8 "Exposure-controls/ personal protection".

Ingestion Do not induce vomiting. Rinse mouth thoroughly. Get medical attention if symptoms occur.

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin Contact Wash skin thoroughly with soap and water. Get medical attention if symptoms occur after washing.

Eye contact In the event of contact with the eyes, rinse thoroughly with clean water for at least 15 minutes. Get medical attention if irritation persists after washing.

Most important symptoms/effects, acute and delayed

Symptoms None known.

Hazards No specific recommendations.

Indication of immediate medical attention and special treatment needed

Treatment No specific recommendations.



SECTION 5: FIRE FIGHTING MEASURES

General Fire Hazards Water spray should be used to cool containers.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media

Dry chemical, alcohol resistant foam or carbon dioxide (CO₂).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire. Do not use alkaline powders.

Specific hazards arising from the chemical

Product will burn under fire conditions. This product may generate hydrogen gas. Vapors may form explosive mixtures with air. For further information, refer to Section 10: "Stability and Reactivity". Hazardous Decomposition Products : formaldehyde, oxides of carbon and silica.

Special protective equipment and precautions for firefighters

Special firefighting procedures

Water spray should be used to cool containers.

Special protective equipment for fire-fighters:

Firefighters should wear standard protective equipment and a positive pressure self-contained breathing apparatus (SCBA).

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment. Avoid contact with alkalis and caustic products. Eliminate all sources of ignition.

Methods and material for containment and cleaning up

Ventilate the area. Use non-sparking tools. Absorb with sand or other inert absorbent. Avoid contact with bases. Scrape up and place in appropriate vented container.

Notification Procedures

Caution: Contaminated surfaces may be slippery. For waste disposal, see Section 13 of the SDS.

Environmental Precautions

Do not allow to enter drains, sewers or watercourses.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Provide adequate ventilation if fumes or vapors are generated. Do not mix with incompatible materials. For further information, refer to Section 10: "Stability and



Reactivity". Read and follow manufacturer's recommendations.

Conditions for safe storage, including any incompatibilities

Store in original vented container. Store in a cool, dry place with adequate ventilation.

Keep away from incompatible materials, open flames, and high temperatures.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits **None of the components have assigned exposure limits.**

Appropriate Engineering Controls **No special precautions.**

Individual protection measures, such as personal protective equipment

General information

Provide sufficient ventilation during operations which cause vapor formation. This product can form formaldehyde vapors when heated to temperatures above 150 degrees C in the presence of air.

Eye/face protection **Wear approved chemical safety glasses.**

Skin Protection

Hand Protection **Protective gloves are recommended.**

Other **Wear suitable protective clothing.**

Respiratory Protection

No protection is ordinarily required under normal conditions of use and with adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided.

Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (Based on typical material)

Information on basic physical and chemical properties

Appearance

Physical state	Liquid
Form	Viscous
Color	Colorless
Odor	Slight odor
Odor threshold	No data available.



pH	Not applicable.
Freezing point	No data available.
Boiling Point	No data available.
Flash Point	> 392 °F (200 °C)
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Flammability limit - upper (%)	74 %(V) Hydrogen.
Flammability limit - lower (%)	4 %(V) Hydrogen.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	1.04 (77 °F (25 °C))
Solubility(ies)	
Solubility in water	Insoluble
Solubility (other)	No data available.
Partition coefficient (n-octanol/water)	No data available.
Auto-ignition temperature	932 °F (500 °C) Hydrogen.
Decomposition temperature	No data available.
Viscosity	200 - 600 mm ² /s (77 °F (25 °C))

SECTION 10: STABILITY AND REACTIVITY DATA

Reactivity	No data available.
Chemical Stability	Material is stable under normal conditions.
Possibility of hazardous reactions	This product may generate hydrogen gas.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources.

Incompatible Materials

A fire or explosion hazard arises because highly flammable gas (hydrogen) is released when it is in contact with: Strong oxidizers, strong bases and chemical compounds with mobile hydrogen, in the presence of metal salts and complexes.

Hazardous Decomposition Products

This product can form formaldehyde vapors when heated to temperatures above 150 degrees C in the presence of air. Thermal decomposition or combustion may liberate carbon oxides, other toxic gases or vapors and amorphous silica.
Quantity of hydrogen potentially released (l/kg of product): ~38

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Ingestion	No data available.
Inhalation	No data available.
Skin Contact	No data available.
Eye contact	No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion	No data available.
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Inhalation	No data available.
Skin Contact	No data available.
Eye contact	No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product ATEmix: 2,500 mg/kg

Dermal Product No data available.

Inhalation Product No data available.

Repeated dose toxicity Product No data available.

Skin Corrosion/Irritation Product No data available.

Serious Eye Damage/Eye Irritation Product No data available.

Respiratory or Skin Sensitization Product No data available.

Carcinogenicity Product No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro Product No data available.

In vivo Product No data available.

Reproductive toxicity Product No data available.

Specific Target Organ Toxicity - Single Exposure Product

No data available.

Specific Target Organ Toxicity - Repeated Exposure Product

No data available.

Aspiration Hazard Product No data available.

Other effects No data available.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Acute hazards to the aquatic environment:



Fish Product No data available.

Aquatic Invertebrates Product No data available.

Chronic hazards to the aquatic environment
Fish Product No data available.

Aquatic Invertebrates Product No data available.

Toxicity to Aquatic Plants Product No data available.

Persistence and Degradability
Biodegradation Product No data available.

BOD/COD Ratio Product No data available.

Bioaccumulative potential
Bioconcentration Factor (BCF) Product No data available.

Partition Coefficient n-octanol / water (log Kow) Product
No data available.

Mobility in soil No data available.

Other adverse effects No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal instructions

Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Waste of this material should not be mixed with other waste. Provide measures such as vented bungs to ensure pressure relief in the waste container. Contaminated packages should be as empty as possible and equipped with a degassing device.

SECTION 14: TRANSPORT INFORMATION

This material is not subject to transport regulations.

Environmental hazards Not regulated.

Special precautions for user Packaging with a breathing/venting bung are FORBIDDEN for transport by air.

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):
None present or none present in regulated quantities.



Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Acute (Immediate) Chronic (Delayed) Fire Reactive Pressure Generating

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

US. New Jersey Worker and Community Right-to-Know Act

No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

Inventory Status

US TSCA Inventory On or in compliance with the inventory.

Canada DSL Inventory List On or in compliance with the inventory.

EU EINECS List On or in compliance with the inventory.

Japan (ENCS) List On or in compliance with the inventory.

China Inv. Existing Chemical Substances On or in compliance with the inventory.

Korea Existing Chemicals Inv. (KECI) On or in compliance with the inventory.

Australia AICS On or in compliance with the inventory.

Philippines PICCS On or in compliance with the inventory.

New Zealand Inventory of Chemicals On or in compliance with the inventory.



SECTION 16: OTHER INFORMATION

HMIS Hazard ID

Health	1 - Slight
Flammability	1 - Slight
Physical Hazards	1 - Slight
PERSONAL PROTECTION	B – Safety Glasses and gloves

NFPA Hazard ID

Flammability	1 - Slight
Health	1 - Slight
Reactivity	1 - Slight
Special Hazard	

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