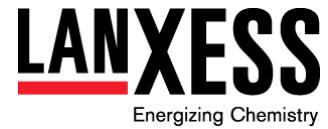


SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



BIOBAN™ O 45 Antimicrobial

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SECTION 1. IDENTIFICATION

Product name : BIOBAN™ O 45 Antimicrobial
Product code : 00000000062633485
EPA registration number : 707-100

Manufacturer or supplier's details

Company : LANXESS Corporation
Product Safety & Regulatory Affairs
111 RIDC Park West Drive
Pittsburgh, Pennsylvania 15275-1112

Responsible Department : (800) LANXESS
(412) 809-1000
lanxesshes@lanxess.com

Emergency telephone : CHEMTREC (800) 424-9300 or
(703) 527-3887 (Outside U.S.A) and mention CCN12916.
Lanxess Emergency Phone (800) 410-3063.

Recommended use of the chemical and restrictions on use

Recommended use : Biocide for industrial application

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity (Oral)	: Category 4
Acute toxicity (Inhalation)	: Category 4
Acute toxicity (Dermal)	: Category 3
Skin corrosion	: Sub-category 1B
Serious eye damage	: Category 1
Skin sensitization	: Sub-category 1A

Other hazards

None known.

GHS label elements

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Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H302 + H332 Harmful if swallowed or if inhaled. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction.
Supplemental Hazard Statements	:	Corrosive to the respiratory tract.
Precautionary Statements	:	Prevention: P261 Avoid breathing mist or vapors. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. Response: P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P361 + P364 Take off immediately all contaminated clothing and wash it before reuse. Storage: P405 Store locked up. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Substance / Mixture : Mixture

Components

Chemical name	CAS No./Unique ID	Concentration (% w/w)
2-octyl-2H-isothiazol-3-one	26530-20-1*	>= 30 - <= 60

* Indicates that the identifier is a CAS No.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4. FIRST AID MEASURES

- General advice : Consult a physician.
Move out of dangerous area.
Do not leave the victim unattended.
Show this safety data sheet to the doctor in attendance.
- If inhaled : Get medical attention immediately.
Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If unconscious, place in recovery position and get medical attention immediately.
Maintain open airway.
If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- In case of skin contact : Get medical attention immediately.
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Continue to rinse for 30 minutes.
Chemical burns must be treated promptly by a physician.
Wash contaminated clothing before reuse.
- In case of eye contact : Get medical attention immediately.
In case of contact, flush eyes with plenty of water for at least 30 minutes. Use fingers to ensure that eyelids are separated and that the eye is being irrigated.
Remove contact lenses, if present and easy to do. Continue rinsing.
Chemical burns must be treated promptly by a physician.
- If swallowed : Rinse mouth with water.
Do not induce vomiting unless directed to do by medical personnel.
If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
If unconscious, place in recovery position and get medical attention immediately.
Never give anything by mouth to an unconscious person.
Maintain open airway.

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Most important symptoms and effects, both acute and delayed

- Symptoms** : Acute overexposure to this product may cause dizziness, headache, drowsiness, malaise, abdominal pain.
Eye: Corrosive with symptoms of reddening, tearing, swelling, burning and possible permanent damage.
Skin: Reddening, burning, and possible permanent damage.
Skin: Causes irritation with symptoms of reddening, itching, and swelling.
Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Effects** : Harmful if swallowed or if inhaled.
Toxic in contact with skin.
May cause an allergic skin reaction.
Causes serious eye damage.
Causes severe burns.
Corrosive to the respiratory tract.
- Protection of first-aiders** : First Aid responders should pay attention to self-protection and use the recommended protective clothing
- Notes to physician** : MATERIAL IS CORROSIVE. It may not be advisable to induce vomiting. Possible mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock and convulsions maybe necessary.
Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media** : Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media** : High volume water jet
- Hazardous combustion products** : Carbon dioxide (CO₂)
Carbon monoxide
Nitrogen oxides (NO_x)
Sulfur oxides
- Further information** : Cool containers/tanks with water spray.
Minimize exposure.
Do not breathe fumes.
Contain run-off.
- Special protective equipment for fire-fighters** : Self-contained breathing apparatus
Complete suit protecting against chemicals

SECTION 6. ACCIDENTAL RELEASE MEASURES

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- Personal precautions, protective equipment and emergency procedures : Wear a NIOSH approved (or equivalent) respirator (with organic vapor/acid gas cartridge and a dust/mist filter) during spill clean-ups and deactivation of this material. MATERIAL IS CORROSIVE. Protective clothing, including chemical splash goggles, nitrile or butyl rubber full length gloves, rubber apron, or clothing made of nitrile or butyl rubber, and rubber overshoes must be worn during spill clean-ups and deactivation of this material. If material comes in contact with the skin during clean-up operations, IMMEDIATELY remove all contaminated clothing and wash exposed skin areas with soap and water. See SECTION 4, First Aid Measures, for further information.
- Environmental precautions : Do not allow material to contaminate ground water system. Prevent product from entering drains.
- Methods and materials for containment and cleaning up : WARNING: KEEP SPILLS AND CLEAN-UP RESIDUALS OUT OF MUNICIPAL SEWERS AND OPEN BODIES OF WATER. Adsorb the spill with spill pillows or inert solids such as clay or vermiculite, and transfer contaminated materials to suitable containers for disposal. Deactivate spill area with freshly prepared solution of 5% sodium bicarbonate and 5% sodium hypochlorite in water. Apply solution to the spill area at a ratio of 10 volumes deactivation solution per estimated volume of residual spill to deactivate any residual active ingredient. Let stand for 30 minutes. Flush the spill area with copious amounts of water to chemical sewer (if in accordance with local procedures, permits and regulations). DO NOT add deactivation solution to the waste pail to deactivate the adsorbed material. See Section 13, "Disposal Considerations", for information regarding the disposal of contained materials.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Corrosive
For personal protection see section 8.
Do not handle material near food, feed or drinking water.
- Conditions for safe storage : Keep in a well-ventilated place.
Store in a cool and shaded area.
Do not store this material in containers made of the following:
steel
Do not store near food, feed or fertilizers.
Keep container tightly closed.
- Further information on storage conditions : CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Since emptied containers retain product residue follow all (M)SDS and label warnings even after container is emptied.
Expiration date based only on retention of >95% actives during storage at 20°C-25°C (68°F-77°F).
- Recommended storage temperature : 34 - 99 °F / 1 - 37 °C

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perature

Further information on storage stability : Stable under recommended storage conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

|| Contains no substances with occupational exposure limit values.

Engineering measures : Use local exhaust ventilation with a minimum capture velocity of 150 ft/min. (0.75 m/sec.) at the point of dust or mist evolution. Refer to the current edition of "Industrial Ventilation: A Manual of Recommended Practice" published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

Personal protective equipment

Respiratory protection : A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Up to 1000 ppm organic vapor: Wear a properly fitted NIOSH approved (or equivalent) full-facepiece, air-purifying respirator, OR full facepiece, airline respirator in the pressure demand mode. Above 1000 ppm organic vapor or Unknown: Wear a properly fitted NIOSH approved (or equivalent) self-contained breathing apparatus in the pressure demand mode, OR full-facepiece, airline respirator in the pressure demand mode with emergency escape provision. Air-purifying respirators should be equipped with NIOSH approved (or equivalent) organic vapor cartridges and R95 or P95 filters.

Hand protection

Remarks : Chemical-resistant gloves should be worn whenever this material is handled. The glove(s) listed below may provide protection against permeation. (Gloves of other chemically resistant materials may not provide adequate protection): butyl-rubber Nitrile rubber Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water. NOTE: Material is a possible skin sensitizer.

Eye protection : Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent). Eye protection worn must be compatible with respiratory pro-

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tection system employed.

Skin and body protection : Impervious clothing

Protective measures : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.
Remove contaminated clothing and protective equipment before entering eating areas.
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.
Appropriate techniques should be used to remove potentially contaminated clothing.
Wash contaminated clothing before reusing.
Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Physical state : liquid

Color : yellow

Odor : odorless

Odor Threshold : No data available

pH : 2.4
Concentration: 10 %

Melting point/ range : < -4 °F / -20 °C

Boiling point/boiling range : 370 °F / 188 °C

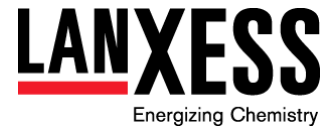
Flash point : > 221 °F / 105 °C
Method: Pensky-Martens closed cup, closed cup

Evaporation rate : < 1.0

Flammability (solid, gas) : No data available

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Self-ignition : No data available

Upper explosion limit / Upper flammability limit : 12.5 %(V)
propylene glycol

Lower explosion limit / Lower flammability limit : 2.6 %(V)
propylene glycol

Vapor pressure : 0.1 mmHg
propylene glycol

Relative vapor density : > 1.0

Relative density : No data available

Density : 1.02 g/cm³ (68 °F / 20 °C)

Solubility(ies)
Water solubility : partly soluble

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : log Pow: 2.45 (75 °F / 24 °C)
Method: Method Not Specified.

Ignition temperature : 700 °F / 371 °C
solvent

Decomposition temperature : No data available

Viscosity
Viscosity, dynamic : 40 mPa·s (68 °F / 20 °C)
Brookfield

Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Surface tension : No data available

Molecular weight : No data available

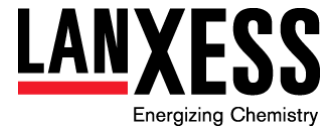
Particle size : Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

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Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Stable under recommended storage conditions.

Conditions to avoid : No data available

Incompatible materials : Avoid contact with the following:
Oxidizing agents
Amines
Reducing agents
mercaptan

Hazardous decomposition products : Nitrogen oxides (NO_x)
Sulfur oxides
hydrogen chloride

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed or if inhaled.
Toxic in contact with skin.

Product:

Acute oral toxicity : LD50 (Rat): 760 mg/kg

Acute inhalation toxicity : LC50 (Rat): 1.25 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): 690 mg/kg

Components:

2-octyl-2H-isothiazol-3-one:

Acute oral toxicity : LD50 (Rat, male and female): 125 mg/kg
Method: OECD Test Guideline 401
GLP: No information available.

Acute inhalation toxicity : LC50 (Rat): 0.27 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: No information available.

Acute dermal toxicity : LD50 (Rat, Unspecified): 311 mg/kg
Method: OECD Test Guideline 402
GLP: No information available.

Skin corrosion/irritation

Causes severe burns.

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Product:

Species : Rabbit
Remarks : Corrosive

Components:

2-octyl-2H-isothiazol-3-one:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Causes burns.
GLP : No information available.

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Species : Rabbit
Result : Corrosive

Components:

2-octyl-2H-isothiazol-3-one:

Species : Rabbit
Assessment : Risk of serious damage to eyes.
Method : OECD Test Guideline 405
GLP : No information available.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified due to lack of data.

Product:

Species : Guinea pig
Result : The product is a skin sensitizer, sub-category 1A.

Remarks : For respiratory sensitization:
No relevant data found.

Components:

2-octyl-2H-isothiazol-3-one:

Test Type : Local lymph node assay (LLNA)
Routes of exposure : Skin contact
Method : OECD Test Guideline 429
Result : The product is a skin sensitizer, sub-category 1A.
GLP : Yes

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Germ cell mutagenicity

Not classified due to lack of data.

Components:

2-octyl-2H-isothiazol-3-one:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: No information available.

Genotoxicity in vivo : Test Type: Micronucleus test
Method: OECD Test Guideline 474
Result: negative
GLP: No information available.

Carcinogenicity

Not classified due to lack of data.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

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

Reproductive toxicity

Not classified due to lack of data.

STOT-single exposure

Corrosive to the respiratory tract.

STOT-repeated exposure

Not classified due to lack of data.

Aspiration toxicity

Not classified due to lack of data.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

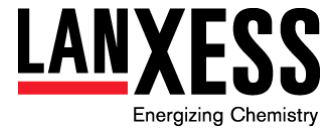
Components:

2-octyl-2H-isothiazol-3-one:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.047 mg/l
Exposure time: 96 h
Test Type: flow-through test
Method: OECD Test Guideline 203

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- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.320 mg/l
Exposure time: 48 h
Test Type: flow-through test
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Green algae (Scenedesmus subspicatus)): 0.084 mg/l
End point: Biomass
Exposure time: 72 h
Method: OECD Test Guideline 201
- ErC50 (Skeletonema costatum (marine diatom)): 0.0015 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
- NOEC (Skeletonema costatum (marine diatom)): 0.00068 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
- Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 0.022 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 210
GLP: No information available.
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.0016 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211
- Toxicity to microorganisms : EC50 (Activated sludge): 30.2 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209
- Toxicity to terrestrial organisms : LC50 (Anas platyrhynchos (Mallard duck)): 1,215 mg/kg
Exposure time: 8 d
- LC50 (Colinus virginianus (Bobwhite quail)): > 5,620 mg/kg
Exposure time: 8 d
- LC50 (Colinus virginianus (Bobwhite quail)): 346 mg/kg
Exposure time: 21 d

Persistence and degradability

Product:

- Physico-chemical removability : Remarks: Activated Sludge Respiration Inhibition EC50: 47 mg/l ai

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Components:

2-octyl-2H-isothiazol-3-one:

Biodegradability : Result: Not readily biodegradable.

Bioaccumulative potential

Components:

2-octyl-2H-isothiazol-3-one:

Bioaccumulation : Bioconcentration factor (BCF): 19.21
Method: calculated

Partition coefficient: n-octanol/water : log Pow: 2.92 (68 °F / 20 °C)
pH: 7
Method: Regulation (EC) No. 440/2008, Annex, A.8

Mobility in soil

Components:

2-octyl-2H-isothiazol-3-one:

Distribution among environmental compartments : Koc: 179.8

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conservation and Recovery Authorization Act : When discarded in its purchased form, this product meets the criteria of corrosivity, and should be managed as a hazardous waste (EPA Hazardous Waste Number D002). (40 CFR 261.20-24)

Waste from residues : The generation of waste should be avoided or minimized wherever possible.
This material and its container must be disposed of in a safe way.
Empty containers retain product residue; observe all precautions for product.
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Waste disposal should be in accordance with existing federal, state, provincial and/or local environmental controls.

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SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No. : UN 2922
Proper shipping name : Corrosive liquid, toxic, n.o.s.
(2-OCTYL-2H-ISOTHIAZOL-3-ONE)
Class : 8
Subsidiary risk : 6.1
Packing group : II
Labels : 8 6.1

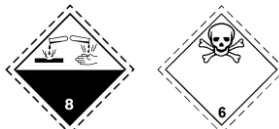


Packing instruction (cargo aircraft) : 855: 30.00 L
Packing instruction (passenger aircraft) : 851: 1.00 L
Environmentally hazardous : yes



IMDG-Code

UN number : UN 2922
UN proper shipping name : CORROSIVE LIQUID, TOXIC, N.O.S.
(2-OCTYL-2H-ISOTHIAZOL-3-ONE)
Class : 8
Subsidiary risk : 6.1
Packing group : II
Labels : 8 6.1



EmS Code : F-A, S-B
Marine pollutant : yes



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

Not applicable for product as supplied.

Domestic regulation

49 CFR

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UN/ID/NA number : UN 2922
Proper shipping name : Corrosive liquids, toxic, n.o.s.
(2-OCTYL-2H-ISOTHIAZOL-3-ONE)
Class : 8
Subsidiary risk : 6.1
Packing group : II
Labels : 8 6.1



ERG Code : 154
Marine pollutant : yes(2-OCTYL-2H-ISOTHIAZOL-3-ONE)



Hazard and Handling Notes

Corrosive.

Slightly toxic.

Environmentally hazardous substance.

Keep away from acids and oxidizing agents

Keep away from foodstuffs, acids and alkalis

The U.S. DOT regulations in Appendix B to 49 CFR § 172.101, paragraph 4 permit this material to ship as marine pollutant.

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

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Acute toxicity (any route of exposure)
Respiratory or skin sensitization
Skin corrosion or irritation
Serious eye damage or eye irritation

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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

Massachusetts Right To Know

Hydrochloric Acid 7647-01-0

Pennsylvania Right To Know

Propylene glycol 57-55-6
2-octyl-2H-isothiazol-3-one 26530-20-1
acetic acid 64-19-7

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.

TSCA inventory

TSCA : This product is regulated under the United States Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

FIFRA information

EPA registration number : 707-100

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Signal Word : DANGER

Hazard Statements : Corrosive Causes irreversible eye damage and skin burns. Harmful if swallowed or absorbed through skin. Harmful if inhaled.

SECTION 16. OTHER INFORMATION

Further information

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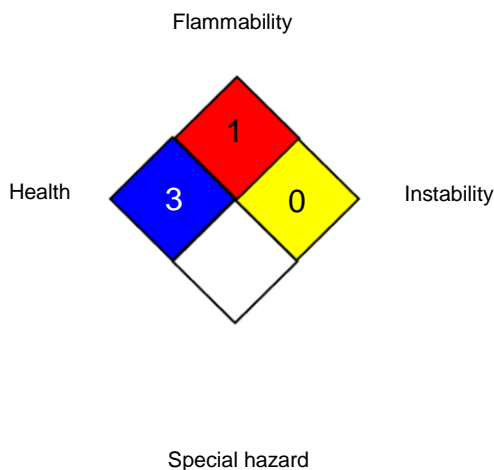
Version
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NFPA 704:



HMIS® IV:

HEALTH	/	3
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

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 German Institute for Standardization; 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 Organization 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, Authorization 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 Con-

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



BIOBAN™ O 45 Antimicrobial

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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 : 07/23/2025

The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. 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 to be a guidance for processing and does not contain any 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. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.

Relevant changes from the previous version are marked on the left side of the Safety Data Sheet with a black double bar in appropriate places.

US / EN