

According to Canadian Hazardous Products Regulations and WHMIS 2015

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Bugsaw Bug Remover

SECTION 1: Identification

Product identifier

Product name: Bugsaw Bug Remover

Product code: ST-200

Recommended use of the product and restriction on use

Relevant identified uses: General Purpose Cleaner, Liquid Foaming

Detergent

Uses advised against: NA

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer: United States

JBS Industries 2726 Henkle Drive Lebanon, Ohio 45036 513-228-2800 SBAETEN@JBSINDUSTRIES.COM

Emergency telephone number:

North America

CHEMTREC 800-424-9300 (24 hours)

SECTION 2: Hazard identification

GHS classification:

Skin irritation, category 2

Label elements

Hazard pictograms:



Signal Word: Warning

Hazard statements:

H315 Causes skin irritation

Precautionary statements:

P264 Wash contaminated area thoroughly after handling

P280 Wear protective gloves/protective clothing/eye protection/face protection

P302+P352 IF ON SKIN: Wash with plenty of water for 15 minutes

P332+P313 If skin irritation occurs: Get medical advice/attention

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P362+P364 Take off contaminated clothing and wash it before reuse

Hazards not otherwise classified:

None

Reactivity with Water

In contact with water, releases gases which are if inhaled.

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 68515-73-1	D-Glucopyranose, oligomers, decyl octyl glycosides	1-70
CAS number: 6834-92-0	Disodium metasilicate	1-30
CAS number: 8028-48-6	Orange, sweet, ext.	1-20
CAS number: 1300-72-7	Sodium Xylenesulfonate	1-20
CAS number: 61789-40-0	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	0.29-10.85
CAS number: 84133-50-6	Alcohols, C12-14-secondary, ethoxylated	1-5
CAS number: 68131-40-8	Alcohols, secondary C11-15, ethoxylated	1-5
CAS number: 68131-39-5	Alcohols, C12-15, ethoxylated	1-5
CAS number: 50-00-0	Formaldehyde	<0.0315
CAS number: 79-43-6	Dichloroacetic acid	<0.0315
CAS number: 75-21-8	Ethylene oxide	<0.0045

Additional Information: None

SECTION 4: First-aid measures

Description of first-aid measures

General notes:

Show this Safety Data Sheet to the doctor in attendance.

After inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention.

After skin contact:

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Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

After eye contact:

Rinse eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

After ingestion:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Skin contact may result in redness, pain, burning and inflammation.

Delayed symptoms and effects:

Effects are dependent on exposure (dose, concentration, contact time).

Immediate medical attention and special treatment

Specific treatment:

Not determined or not available.

Notes for the doctor:

Treat symptomatically.

SECTION 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

Unsuitable extinguishing media:

Do not use water jet.

Specific hazards during fire-fighting:

Thermal decomposition may produce irritating/toxic fumes/gases.

Special protective equipment for firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.

Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling. Respiratory protection may be necessary for spills greater than 5 gallons. Avoid breathing vapours, mist or

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gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

Methods and material for containment and cleaning up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13.

SECTION 7: Handling and storage

Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Conditions for safe storage, including any incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
Alberta	Formaldehyde	50-00-0	8-Hour TWA: 0.9 mg/m ³ (0.75 ppm)
	Formaldehyde	50-00-0	Ceiling Limit: 1.3 mg/m³ (1 ppm)
	Ethylene oxide	75-21-8	8-Hour TWA: 1 ppm (1.8 mg/m³)
	Dichloroacetic acid	79-43-6	TWA: 2.6 mg/m³ (0.5 ppm)
British Columbia	Formaldehyde	50-00-0	8-Hour TWA: 0.1 ppm
	Ethylene oxide	75-21-8	8-Hour TWA: 0.1 ppm
	Ethylene oxide	75-21-8	15-Minute STEL: 1 ppm
	Formaldehyde	50-00-0	15-Minute STEL: 0.3 ppm
	Dichloroacetic acid	79-43-6	TWA: 0.5 ppm
Manitoba	Formaldehyde	50-00-0	8-Hour TWA: 0.1 ppm
	Formaldehyde	50-00-0	15-Minute STEL: 0.3 ppm
	Ethylene oxide	75-21-8	8-Hour TWA: 1 ppm
	Formaldehyde	50-00-0	STEL: 0.3 ppm
	Dichloroacetic acid	79-43-6	TWA: 0.5 ppm
Ontario	Formaldehyde	50-00-0	15-Minute STEL: 1 ppm

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Formaldehyde	50-00-0	Ceiling Limit: 1.5 ppm
	Ethylene oxide	75-21-8	TWA Exposure Limit Value: 1 ppm
	Ethylene oxide	75-21-8	15-Minute STEL: 10 ppm
	Dichloroacetic acid	79-43-6	TWA: 0.5 ppm
Quebec	Formaldehyde	50-00-0	Ceiling Limit: 3 mg/m³ (2 ppm)
	Ethylene oxide	75-21-8	TWA Exposure Limit Value: 1 ppm
Saskatchewan	Formaldehyde	50-00-0	Ceiling Limit: 0.3 ppm
	Ethylene oxide	75-21-8	Level Limit Value: 1 ppm
	Ethylene oxide	75-21-8	15-Minute STEL: 2 ppm
	Dichloroacetic acid	79-43-6	15-Minute Contamination Limit: 1.5 ppm
	Dichloroacetic acid	79-43-6	8-Hour Contamination Limit: 0.5 ppm
New Brunswick	Ethylene oxide	75-21-8	8-Hour TWA: 1 ppm

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Personal protection equipment

Eye and face protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Skin and body protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

General hygienic measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

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SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance (physical state, color):	Liquid
Odor:	Std
Odor threshold:	Not determined or not available.
pH-value:	10
Melting/Freezing point:	Not determined or not available.
Boiling point/range:	Not determined or not available.
Flash point:	Not determined or not available.
Evaporation rate:	Not determined or not available.
Flammability (solid, gaseous):	Not determined or not available.
Explosion limit upper:	Not determined or not available.
Explosion limit lower:	Not determined or not available.
Vapor pressure:	Not determined or not available.
Vapor density:	Not determined or not available.
Density:	Not determined or not available.
Relative density:	Not determined or not available.
Solubilities:	Not determined or not available.
Partition coefficient (n-octanol/water):	Not determined or not available.
Auto/Self-ignition temperature:	Not determined or not available.
Decomposition temperature:	Not determined or not available.
Dynamic viscosity:	Not determined or not available.
Kinematic viscosity:	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

SECTION 10: Stability and reactivity

Reactivity:

Not reactive under recommended handling and storage conditions.

Chemical stability:

Stable under recommended handling and storage conditions.

Possibility of hazardous reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

Conditions to avoid:

Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

Incompatible materials:

None known.

Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Route	Result
D-Glucopyranose, oligomers,	oral	LD50 Rat: > 2000 mg/kg
decyl octyl glycosides	dermal	LD50 Rabbit: > 2000 mg/kg
Disodium metasilicate	dermal	LD50 Rat: > 5000 mg/kg
	oral	LD50 Rat: 1153 mg/kg
	inhalation	LC50 Rat: > 2.06 mg/L (4 hr [vapor])
Alcohols, C12-15, ethoxylated	oral	LD50 Rat: > 5000 mg/kg
	dermal	LD50 Rat: > 2000 mg/kg
Formaldehyde	oral	LD50 Rat: 100 mg/kg
	inhalation	LC50 Rat: <463 ppmV (4 hr (vapor))
	dermal	LD50 Rabbit: 270 mg/kg
Ethylene oxide	inhalation	LC50 Rat: 1450 ppmV (4 Hours (Gas))
	oral	LD50 Rat: 72 mg/kg
	Inhalation ATE	LC50 Rat: 700 ppmV ((Gases))
	Oral ATE	LD50 Rat: 100 mg/kg
Orange, sweet, ext.	oral	LD50 Rat: >5000 mg/kg
	dermal	LD50 Rabbit: >5000 mg/kg
Sodium Xylenesulfonate	dermal	LD50 Rabbit: >= 2000 mg/kg
	oral	LD50 Rat: >= 3346 mg/kg
Alcohols, secondary C11-15,	oral	LD50 Rat: >= 2000 mg/kg
ethoxylated	dermal	LD50 Rat: >2000 mg/kg
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-,		LD50 Rat: 4900 mg/kg
N-coco acyl derivs., hydroxides, inner salts	dermal	LD50 Rat: > 2000 mg/kg
Dichloroacetic acid	dermal	LD50 Rabbit: 797 mg/kg
	oral	LD50 Rat: 2820 mg/kg

Skin corrosion/irritation

Assessment:

Causes skin irritation.

Product data:

No data available.

Name	Result
Disodium metasilicate	Causes severe skin burns.
1-Propanaminium, 3-amino-N- (carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	
Orange, sweet, ext.	Causes skin irritation.

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Name	Result
Alcohols, C12-14-secondary, ethoxylated	Causes skin irritation.
Alcohols, C12-15, ethoxylated	Causes skin irritation.
Formaldehyde	Causes severe skin burns.
Dichloroacetic acid	Causes severe skin burns.
Ethylene oxide	Causes severe skin burns.
Alcohols, secondary C11-15, ethoxylated	Causes skin irritation.

Serious eye damage/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available. Substance data:

Name	Result
D-Glucopyranose, oligomers, decyl octyl glycosides	Causes serious eye damage.
Disodium metasilicate	Causes serious eye damage.
1-Propanaminium, 3-amino-N- (carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	
Sodium Xylenesulfonate	Causes serious eye irritation.
Alcohols, C12-14-secondary, ethoxylated	Causes serious eye damage.
Alcohols, C12-15, ethoxylated	Causes serious eye damage.
Formaldehyde	Causes serious eye damage.
Dichloroacetic acid	Causes serious eye damage.
Ethylene oxide	Causes serious eye damage.
Alcohols, secondary C11-15, ethoxylated	Causes serious eye damage.

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available. Substance data:

Name	Result
Orange, sweet, ext.	May cause an allergic skin reaction.
Formaldehyde	May cause an allergic skin reaction.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

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Name	Species	Result
Formaldehyde		May cause cancer.
Ethylene oxide		May cause cancer.

International Agency for Research on Cancer (IARC):

Name	Classification
Disodium metasilicate	Not Applicable
Alcohols, C12-14-secondary, ethoxylated	Not Applicable
Alcohols, C12-15, ethoxylated	Not Applicable
Ethylene oxide	Group 1
Orange, sweet, ext.	Not Applicable
D-Glucopyranose, oligomers, decyl octyl glycosides	Not Applicable
Sodium Xylenesulfonate	Not Applicable
Alcohols, secondary C11-15, ethoxylated	Not Applicable
1-Propanaminium, 3-amino-N- (carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	
Formaldehyde	Group 1
Dichloroacetic acid	Group 2B

National Toxicology Program (NTP):

Name	Classification
Disodium metasilicate	Not Applicable
Alcohols, C12-14-secondary, ethoxylated	Not Applicable
Alcohols, C12-15, ethoxylated	Not Applicable
Formaldehyde	Known to be human carcinogens
Ethylene oxide	Known to be human carcinogens
Orange, sweet, ext.	Not Applicable
D-Glucopyranose, oligomers, decyl octyl glycosides	Not Applicable
Sodium Xylenesulfonate	Not Applicable
Alcohols, secondary C11-15, ethoxylated	Not Applicable
1-Propanaminium, 3-amino-N- (carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	
Dichloroacetic acid	Reasonably anticipated to be human carcinogens

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

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Substance data:

Name	Result
Formaldehyde	Suspected of causing genetic defects.
Ethylene oxide	May cause genetic defects.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available. **Substance data:**

Name	Result
Ethylene oxide	May damage fertility. Suspected of damaging the unborn child.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available. Substance data:

Name	Result
Disodium metasilicate	May cause respiratory irritation.
Ethylene oxide	May cause respiratory irritation.
	May cause drowsiness or dizziness.
Formaldehyde	May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available. **Substance data:**

Name	Result
	Studies on the effects of Ethylene oxide have concluded not only neurotoxic symptoms in humans, but also measured effects on nerve conduction velocities indicative of sensorimotor neuropathy, and axonal degeneration observed in nerve biopsies of exposed workers.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available. Substance data:

Name	Result
Orange, sweet, ext.	Maybe fatal if swallowed and enters airways.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

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Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Alcohols, C12-15, ethoxylated	Aquatic Invertebrates EC50 Daphnia magna: 0.14 mg/L (48 hr)
	Aquatic Plants EC50 Pseudokirchneriella subcapitata: 0.75 mg/L (72 hr)
Dichloroacetic acid	Aquatic Invertebrates EC50 Daphnia magna: 106 mg/L (24 hr)
	Fish LC50 Marine water fish: >2000 mg/L (96 hr)
	Aquatic Plants EC50 Marine water algae: 148.2 mg/L (72 hr)
Ethylene oxide	Aquatic Plants EC50 Pseudokirchneriella subcapitata: 240 mg/L (96 h, read-across substance data)
	Aquatic Invertebrates LC50 Daphnia magna: 212 mg/L (48 h)
	Fish LC50 Pimephales promelas: 84 mg/L (96 h)
Orange, sweet, ext.	Aquatic Plants EC50 Desmodesmus subspicatus: 150 mg/L (72 hr [growth rate])
	Aquatic Invertebrates EC50 Daphnia magna: 8.5 mg/L (48 hr [mobility])
D-Glucopyranose, oligomers,	Fish LC50 Danio rerio: 100.81 mg/L (96 hr)
decyl octyl glycosides	Aquatic Invertebrates EC50 Acartia tonsa: 31.62 mg/L (48 hr)
	Aquatic Plants EC50 Desmodesmus subspicatus: 27.22 mg/L (72 hr)
Sodium Xylenesulfonate	Aquatic Plants EC50 Selenastrum capricornutum: >=758 mg/L (96 hr [growth rate; read-across])
	Fish LC50 Oncorhynchus mykiss: >=1580 mg/L (96 hr [read-across])
	Aquatic Invertebrates EC50 Daphnia magna: >1020 mg/L (48 hr [mobility; read-across])
Alcohols, secondary C11-15, ethoxylated	Aquatic Plants EC50 Pseudokirchneriella subcapitata: 2.01 mg/L (72 hr [growth rate])
	Fish LC50 Lepomis macrochirus: 3.2 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: 5.66 mg/L (48 hr)
1-Propanaminium, 3-amino-N- (carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	Fish LC50 Danio rerio: 2 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: 6.4 mg/L (48 hr)

Chronic (long-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance datar	
Name	Result
Alcohols, C12-15, ethoxylated	Fish NOEC Fathead minnow: 0.16 mg/L (10 days)
	Aquatic Invertebrates NOEC Daphnia magna: 0.77 mg/L (21 days)
	Fish NOEC Danio rerio: 1 mg/L (28 d [read-across])
decyl octyl glycosides	Aquatic Invertebrates NOEC Daphnia magna: 1 mg/L (21 d [read-across])

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Name	Result
1	Fish EC10 Pimephales promelas: 0.87 mg/L (32 d [egg survival; QSAR])
ethoxylated	Aquatic Invertebrates NOEC Daphnia: 0.2 mg/L (21 d [mortality])
1-Propanaminium, 3-amino-N- (carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	

Persistence and degradability

Product data: No data available.

Substance data:

Name	Result
D-Glucopyranose, oligomers, decyl octyl glycosides	Readily biodegradable in water (100% degradation [DOC removal] after 28 days).
1-Propanaminium, 3-amino-N- (carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	Readily biodegradable in water (50% degradation after 1 day; >90% degradation after 5 days).
Alcohols, C12-15, ethoxylated	Readily biodegradable (61% degradation after 28 days).
Formaldehyde	Readily biodegradable (99% degradation after 28 days).
Dichloroacetic acid	This substance is readily biodegradable.
Ethylene oxide	Readily biodegradable (96% degradation after 28 days).
Orange, sweet, ext.	The substance is readily biodegradable. 75% degradation, measured by O2 consumption, after 28 days.
Sodium Xylenesulfonate	The substance is readily biodegradable. 83 - 85% degradation, measured by CO2 evolution, after 28 days.
Alcohols, secondary C11-15, ethoxylated	The substance is readily biodegradable. 65% degradation in water, measured by O2 consumption, after 28 days.

Bioaccumulative potential

Product data: No data available.

Substance data:

Name	Result
Disodium metasilicate	Low potential for bioaccumulation.
1-Propanaminium, 3-amino-N- (carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	
Formaldehyde	Accumulation in aquatic organisms is not to be expected.
Dichloroacetic acid	This substance has low potential for bioaccumulation.
Ethylene oxide	Low potential for bioaccumulation (logKow = -0.3).
Orange, sweet, ext.	The substance has a low potential for bioaccumulation. BCF [QSAR]: 32 L/kg - 395 L/kg
Alcohols, secondary C11-15, ethoxylated	The substance is bioaccumulative (B) but not very bioaccumulative (vB). Calculated (QSAR) BCF: $>= 181 - <= 3010$ dimensionless

Mobility in soil

Product data: No data available.

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Name	Result
	Substance is mobile to moderately mobile (experimental log Koc: 1.812 dimensionless; calculated Koc: 648 L/kg); therefore, moderate adsorption to soil can be expected.
D-Glucopyranose, oligomers, decyl octyl glycosides	Substance is expected to be mobile (log Koc: 1.7); therefore, adsorption to soil is not expected.
Formaldehyde	Adsorption to solid soil phase is possible.
Dichloroacetic acid	This substance will not adsorb at all to soils or sediments should these environmental compartments be exposed to it.
Alcohols, secondary C11-15, ethoxylated	The substance is hardly mobile to immobile in soil with a high potential for adsorption to soil and sediment. Koc: $>= 14000 - <= 420000$ dimensionless

Results of PBT and vPvB assessment

Product data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT. **vPvB** assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance data:

PBT assessment:

D-Glucopyranose, oligomers, decyl octyl glycosides	Substance is not PBT.
Disodium metasilicate	PBT assessment does not apply to this substance as it is inorganic.
1-Propanaminium, 3-amino-N- (carboxymethyl)-N,N- dimethyl-, N-coco acyl derivs., hydroxides, inner salts	Substance is not PBT.
Orange, sweet, ext.	The substance is not PBT.
Alcohols, C12-15, ethoxylated	Substance is not PBT.
Formaldehyde	Not a PBT substance.
Dichloroacetic acid	This substance is not PBT.
Ethylene oxide	This substance is not PBT.
Sodium Xylenesulfonate	The substance is not PBT.
Alcohols, secondary C11-15, ethoxylated	The substance is not PBT.

vPvB assessment:

Substance is not vPvB.
Substance is not vPvB.
The substance is not vPvB.
Substance is not vPvB.
vPvB assessment does not apply to this substance as it is inorganic.
Not a vPvB substance.
This substance is not vPvB.
This substance is not vPvB.

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Sodium Xylenesulfonate	The substance is not vPvB.
Alcohols, secondary C11-15, ethoxylated	The substance is not vPvB.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities.

Contaminated packages:

Not determined or not applicable.

SECTION 14: Transport information

Canadian Transportation of Dangerous Goods (TDG)

UN number	UN1760
UN proper shipping name	Corrosive Liquids, N.O.S. (Sodium metasilicate)
UN transport hazard class(es)	8
Packing group	II
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
Bulk Name	None

According to Canadian Hazardous Products Regulations and WHMIS 2015

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Bugsaw Bug Remover

Ship type	None
Pollution category	None

SECTION 15: Regulatory information

Canada regulations

Domestic substances list (DSL): All ingredients are listed or exempt. **Non-domestic substances list (NDSL):** None of the ingredients are listed.

Additional information: Not determined.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with the Canadian Hazardous Products Regulations and WHMIS 2015. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

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End of Safety Data Sheet