



Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 02.18.2021

Page 1 of 14

Revision date: 12.07.2022

Venom Smart Surfactant

SECTION 1: Identification

Product Identifier

Product Name: Venom Smart Surfactant

Synonyms: Surfactants for Venom Kit

Product code: PR-112

Recommended Use of the Product and Restriction on Use

Relevant Identified Uses: Surfactants for Presoak

Uses Advised Against: Not determined or not applicable.

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(s) Identification

GHS Classification:

Skin irritation, category 2

Serious eye damage, category 1

Flammable liquids, category 4

Specific target organ toxicity - single exposure, category 3, narcotic effects

Label elements

Hazard Pictograms:



Signal Word: Danger

Hazard statements:

H227 Combustible liquid

H315 Causes skin irritation

H318 Causes serious eye damage

H336 May cause drowsiness or dizziness

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 02.18.2021

Page 2 of 14

Revision date: 12.07.2022

Venom Smart Surfactant

Precautionary Statements:

- P264 Wash hands thoroughly after handling
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P271 Use only outdoors or in a well-ventilated area
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P332+P313 If skin irritation occurs: Get medical advice/attention
- P362 Take off contaminated clothing and wash it before reuse
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P310 Immediately call a POISON CENTER/doctor if you feel unwell after coming in contact.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P403+P233 Store in a well-ventilated place. Keep container tightly closed
- P405 Store locked up
- P501 It is the responsibility of the waste generator to characterize all waste material according to regulatory entities.

Hazards Not Otherwise Classified: None

SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: Proprietary	Cationic/Nonionic Surfactant Blend	<10
CAS Number: 68439-46-3	Alcohols, C9-11, branched and linear, ethoxylated	<10
CAS Number: 111-76-2	2-Butoxyethanol	<15
CAS Number: 1300-72-7	Sodium Xylenesulfonate	<5
CAS Number: 61789-40-0	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	<5
CAS Number: 50-00-0	Formaldehyde	<0.09
CAS Number: 79-43-6	Dichloroacetic acid	<0.09

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

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 02.18.2021

Page 3 of 14

Revision date: 12.07.2022

Venom Smart Surfactant

symptoms develop or persist, seek medical advice/attention.

After Skin Contact:

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:

Immediately rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. Seek immediate medical attention, preferably from an ophthalmologist.

After Swallowing:

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.

Eye contact may result in irritation, redness, pain, inflammation, itching, burning, tearing, corneal damage and loss of vision.

Product is combustible. Exposure to sources of ignition may cause physical injury.

Inhalation may have adverse effects on the central nervous system. Symptoms may include drowsiness, dizziness, headache, nausea and lowering of consciousness. Acute overexposure via inhalation may result in respiratory distress, confusion and unconsciousness.

Delayed Symptoms and Effects:

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

Immediate Medical Attention and Special Treatment

Specific Treatment:

In case of eye contact, seek prompt medical attention while rinsing is continued.

Skin/eye burns require immediate treatment.

Overexposure via inhalation requires urgent medical treatment.

Notes for the Doctor:

Treat symptomatically.

SECTION 5: Firefighting 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.

Combustible liquid. Will be easily ignitable by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Inhalation or contact with material may irritate or burn skin and eyes. Fire may

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 02.18.2021

Page 4 of 14

Revision date: 12.07.2022

Venom Smart Surfactant

produce irritating, corrosive and/or toxic gases. Vapors may cause dizziness or suffocation.

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.

Evacuate non-essential personnel. Ventilate closed spaces before entering. Consider initial evacuation for 300 meters in all directions. If tank/rail car is involved in the fire, ISOLATE for 800 meters in all directions. Fight fire from a maximum distance. Move containers from fire area if you can do it without risk. Use water spray/fog for cooling fire exposed containers. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles. If this is impossible, withdraw from area and let fire burn. Stand by, at a safe distance, with extinguisher ready for possible re-ignition. A vapor-suppressing foam may be used to reduce vapors. Avoid unnecessary run-off of extinguishing media which may cause pollution. Do not handle damaged containers unless specialized to do so.

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.

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. A vapor-suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers 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. Do not get in eyes. Avoid contact with skin 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

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 02.18.2021

Page 5 of 14

Revision date: 12.07.2022

Venom Smart Surfactant

Only those substances with limit values have been included below.

Occupational Exposure Limit Values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
WEEL	Cationic/Nonionic Surfactant Blend	Proprietary	TWA: 10 mg/m ³ (Aerosol)
OSHA	2-Butoxyethanol	111-76-2	8-Hour TWA-PEL: 240 mg/m ³ (50 ppm [Table Z-1])
	2-Butoxyethanol	111-76-2	8-Hour TWA: 120 mg/m ³ (25 ppm [Table Z-1-A])
	Formaldehyde	50-00-0	8-Hour TWA-PEL: 0.75 ppm
	Formaldehyde	50-00-0	15-Minute STEL: 2 ppm
	Formaldehyde	50-00-0	8-Hour TWA-PEL: 0.5 ppm (Action level)
NIOSH	2-Butoxyethanol	111-76-2	IDLH: 700 ppm
	2-Butoxyethanol	111-76-2	REL-TWA: 24 mg/m ³ (5 ppm [up to 10 hr])
	Formaldehyde	50-00-0	REL-TWA: 0.016 ppm (up to 10 hr)
	Formaldehyde	50-00-0	Ceiling Limit: 0.1 ppm (15 min)
	Formaldehyde	50-00-0	IDLH: 20 ppm
ACGIH	2-Butoxyethanol	111-76-2	8-Hour TWA-PEL: 20 ppm
	Formaldehyde	50-00-0	15-Minute STEL: 0.3 ppm
	Formaldehyde	50-00-0	8-Hour TWA: 0.1 ppm
	Dichloroacetic acid	79-43-6	8-Hour TWA: 0.5 ppm
United States(California)	2-Butoxyethanol	111-76-2	8-Hour TWA-PEL: 97 mg/m ³ (20 ppm)
	2-Butoxyethanol	111-76-2	REL: 4700 ug/m ³ (Acute inhalation)
	2-Butoxyethanol	111-76-2	REL: 164 ug/m ³ (8-hour Inhalation)
	2-Butoxyethanol	111-76-2	REL: 82 ug/m ³ (Chronic inhalation)
	Formaldehyde	50-00-0	15-Minute STEL: 2 ppm
	Formaldehyde	50-00-0	8-Hour TWA-PEL: 0.75 ppm
	Formaldehyde	50-00-0	8-Hour TWA: 0.5 ppm (Action level)

Biological Limit Values:

Country (Legal Basis)	Substance	Identifier	Determinant	Specimen	Sampling time	Permissible limits
ACGIH	2-Butoxyethanol	111-76-2	Butoxyacetic acid (with hydrolysis)	Creatinine in Urine	End of shift	200 mg/g

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

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 02.18.2021

Page 6 of 14

Revision date: 12.07.2022

Venom Smart Surfactant

below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Personal Protection Equipment

Eye and Face Protection:

Use safety glasses with side shields or goggles. Consider the use of a face shield for splash protection. 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.

SECTION 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Appearance	Liquid
Odor	Std.
Odor threshold	Not determined or not available.
pH	6-8
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	Not determined or not available.
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	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.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 02.18.2021

Page 7 of 14

Revision date: 12.07.2022

Venom Smart Surfactant

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, static electricity and incompatible materials. Vapor accumulation in low or confined areas.

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

Acute Toxicity

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

Product Data: No data available.

Substance Data:

Name	Route	Result
Alcohols, C9-11, branched and linear, ethoxylated	oral	LD50 Rat: 1378 mg/kg
	dermal	LD50 Rabbit: > 2000 mg/kg
	inhalation	LC50 Rat: >100 mg/m ³ (6 hr [Vapor; read-across])
2-Butoxyethanol	dermal	LD50 Rabbit: 220 mg/kg
	inhalation	LC50 Rat: 450 ppmV (4 h [Vapor])
	Oral ATE	LD50 Rat: 1200 mg/kg (Annex VI to the CLP)
	oral	LD50 Rat: 470 mg/kg
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	oral	LD50 Rat: 4900 mg/kg
	dermal	LD50 Rat: > 2000 mg/kg
Sodium Xylenesulfonate	dermal	LD50 Rabbit: >= 2000 mg/kg
	oral	LD50 Rat: >= 3346 mg/kg
Formaldehyde	oral	LD50 Rat: 100 mg/kg
	inhalation	LC50 Rat: <463 ppmV (4 hr (vapor))
	dermal	LD50 Rabbit: 270 mg/kg
Dichloroacetic acid	dermal	LD50 Rabbit: 797 mg/kg
	oral	LD50 Rat: 2820 mg/kg

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 02.18.2021

Page 8 of 14

Revision date: 12.07.2022

Venom Smart Surfactant

Skin Corrosion/Irritation

Assessment:

Causes skin irritation.

Product Data:

No data available.

Substance Data:

Name	Result
2-Butoxyethanol	Causes skin irritation.
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	Causes skin irritation.
Formaldehyde	Causes severe skin burns.
Dichloroacetic acid	Causes severe skin burns.

Serious Eye Damage/Irritation

Assessment:

Causes serious eye damage.

Product Data:

No data available.

Substance Data:

Name	Result
Alcohols, C9-11, branched and linear, ethoxylated	Causes serious eye damage.
2-Butoxyethanol	Causes serious eye irritation.
Sodium Xylenesulfonate	Causes serious eye irritation.
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	Causes serious eye irritation.
Formaldehyde	Causes serious eye damage.
Dichloroacetic acid	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
Formaldehyde	May cause an allergic skin reaction.

Carcinogenicity

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

Product Data: No data available.

Substance Data:

Name	Species	Result
Formaldehyde		May cause cancer.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 02.18.2021

Page 9 of 14

Revision date: 12.07.2022

Venom Smart Surfactant

International Agency for Research on Cancer (IARC):

Name	Classification
Alcohols, C9-11, branched and linear, ethoxylated	Not Applicable
2-Butoxyethanol	Group 3
Sodium Xylenesulfonate	Not Applicable
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	Not Applicable
Formaldehyde	Group 1
Dichloroacetic acid	Group 2B

National Toxicology Program (NTP):

Name	Classification
Alcohols, C9-11, branched and linear, ethoxylated	Not Applicable
2-Butoxyethanol	Not Applicable
Sodium Xylenesulfonate	Not Applicable
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	Not Applicable
Formaldehyde	Known to be human carcinogens
Dichloroacetic acid	Reasonably anticipated to be human carcinogens

OSHA Carcinogens:

Ingredient Name	CAS	OSHA Carcinogens Status
Formaldehyde	50-00-0	Yes

Germ Cell Mutagenicity

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

Product Data:

No data available.

Substance Data:

Name	Result
Formaldehyde	Suspected of causing genetic defects.

Reproductive Toxicity

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

Product Data:

No data available.

Substance Data: No data available.

Specific Target Organ Toxicity (Single Exposure)

Assessment:

May cause drowsiness or dizziness.

Product Data:

No data available.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 02.18.2021

Page 10 of 14

Revision date: 12.07.2022

Venom Smart Surfactant

Substance Data:

Name	Result
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: No data available.

Aspiration toxicity

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

Product Data:

No data available.

Substance Data: No data available.

Information on Likely Routes of Exposure:

No data available.

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

No data available.

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, C9-11, branched and linear, ethoxylated	Fish LC50 Oncorhynchus mykiss: 5 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: 2.5 mg/L (48 hr)
	Aquatic Plants ErC50 Selenastrum capricornutum: 1.4 mg/L (96 hr)
2-Butoxyethanol	Aquatic Invertebrates EC50 Daphnia magna: 1,550 mg/L (48 h [mobility])
	Fish LC50 Oncorhynchus mykiss: 1,474 mg/L (96 h [mortality])
Sodium Xylenesulfonate	Aquatic Plants EC50 Selenastrum capricornutum: \geq 758 mg/L (96 hr [growth rate; read-across])
	Fish LC50 Oncorhynchus mykiss: \geq 1580 mg/L (96 hr [read-across])
	Aquatic Invertebrates EC50 Daphnia magna: $>$ 1020 mg/L (48 hr [mobility; read-across])
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)
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)

Chronic (Long-Term) Toxicity

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

Product Data: No data available.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 02.18.2021

Page 11 of 14

Revision date: 12.07.2022

Venom Smart Surfactant

Substance Data:

Name	Result
2-Butoxyethanol	Fish NOEC Danio rerio: > 100 mg/L (21 d)
	Aquatic Invertebrates NOEC Daphnia magna: 100 mg/L (21 d [reproduction])
Alcohols, C9-11, branched and linear, ethoxylated	Fish NOEC Lepomis macrochirus: > 0.33 mg/L (30 d)
	Aquatic Invertebrates NOEC Daphnia magna: 0.77 mg/L (21 d)
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	Aquatic Invertebrates NOEC Daphnia magna: 0.9 mg/L (21 d)

Persistence and Degradability

Product Data: No data available.

Substance Data:

Name	Result
2-Butoxyethanol	Readily biodegradable (90.4% degradation after 28 days, measured by CO2 evolution).
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, C9-11, branched and linear, ethoxylated	The substance is readily biodegradable. 70 - 100% degradation in water, measured by CO2 evolution, after 28 days.
Sodium Xylenesulfonate	The substance is readily biodegradable. 83 - 85% degradation, measured by CO2 evolution, after 28 days.
Formaldehyde	Readily biodegradable (99% degradation after 28 days).
Dichloroacetic acid	This substance is readily biodegradable.

Bioaccumulative Potential

Product Data: No data available.

Substance Data:

Name	Result
2-Butoxyethanol	Not expected to bioaccumulate (log Kow = 0.83).
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	Substance is not expected to bioaccumulate significantly (estimated BCF: 70.79 L/kg).
Alcohols, C9-11, branched and linear, ethoxylated	The substance has low potential for bioaccumulation. Bioaccumulation in organisms is negligible, due to biotransformation and excretion of alcohol ethoxylates. BCF: 237 L/kg
Formaldehyde	Accumulation in aquatic organisms is not to be expected.
Dichloroacetic acid	This substance has low potential for bioaccumulation.

Mobility in Soil

Product Data: No data available.

Substance Data:

Name	Result
Alcohols, C9-11, branched and linear, ethoxylated	Moderately mobile (log Koc: 1.575 - 2.365).

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 02.18.2021

Page 12 of 14

Revision date: 12.07.2022

Venom Smart Surfactant

Name	Result
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	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.
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.

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:

Alcohols, C9-11, branched and linear, ethoxylated	The substance is not PBT.
2-Butoxyethanol	This substance is not PBT.
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	Substance is not PBT.
Sodium Xylenesulfonate	The substance is not PBT.
Formaldehyde	Not a PBT substance.
Dichloroacetic acid	This substance is not PBT.

vPvB assessment:

Alcohols, C9-11, branched and linear, ethoxylated	The substance is not vPvB.
2-Butoxyethanol	This substance is not vPvB.
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	Substance is not vPvB.
Sodium Xylenesulfonate	The substance is not vPvB.
Formaldehyde	Not a vPvB substance.
Dichloroacetic acid	This 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 characterize all waste material according to regulatory entities.

Contaminated packages:

Not determined or not applicable.

SECTION 14: Transport Information

United States Transportation of Dangerous Goods (49 CFR DOT)

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 02.18.2021

Page 13 of 14

Revision date: 12.07.2022

Venom Smart Surfactant

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 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

SECTION 15: Regulatory Information

United States Regulations

Inventory Listing (TSCA): All ingredients are listed-active or exempt.

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export Notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 Extremely Hazardous Substances:

50-00-0	Formaldehyde	Listed
---------	--------------	--------

SARA Section 313 Toxic Chemicals:

111-76-2	2-Butoxyethanol	Listed
50-00-0	Formaldehyde	Listed

CERCLA:

111-76-2	2-Butoxyethanol	Listed	N/A
50-00-0	Formaldehyde	Listed	100 lb

RCRA:

50-00-0	Formaldehyde	Listed	U122
---------	--------------	--------	------

Section 112(r) of the Clean Air Act (CAA):

50-00-0	Formaldehyde	Listed
---------	--------------	--------

Massachusetts Right to Know:

111-76-2	2-Butoxyethanol	Listed
----------	-----------------	--------

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 02.18.2021

Page 14 of 14

Revision date: 12.07.2022

Venom Smart Surfactant

50-00-0	Formaldehyde	Listed
---------	--------------	--------

New Jersey Right to Know:

111-76-2	2-Butoxyethanol	Listed
50-00-0	Formaldehyde	Listed
79-43-6	Dichloroacetic acid	Listed

New York Right to Know:

111-76-2	2-Butoxyethanol	Listed
50-00-0	Formaldehyde	Listed
79-43-6	Dichloroacetic acid	Listed

Pennsylvania Right to Know:

111-76-2	2-Butoxyethanol	Listed
50-00-0	Formaldehyde	Listed

California Proposition 65:

⚠️WARNING: This product can expose you to Formaldehyde; which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

⚠️WARNING: This product can expose you to Dichloroacetic acid; which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Additional information: Not determined.

SECTION 16: Other Information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. 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.

NFPA: 0-0-0

HMIS: 0-0-0

Initial Preparation Date: 02.18.2021

Revision date: 12.07.2022

End of Safety Data Sheet