Weiss Bonya

Material Safety Data Sheet

1. Gemini® Fluoro Surfactant BH-10W

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
$(C_2H_4O)_x(CF_2)_yC_2H_5FO$	65545-80-4	≥98%
1,4-Dioxane	123-91-1	≤2%

3. HAZARDS IDENTIFICATION

Emergency Overview

Inhalation of vapor or mist may cause nasal,throat or long irritation. Inhalation of large amounts of respirable particles maybe toxic to the lungs. Symptoms maybe modest initially, follow in hours by severe shortness of breath requiring prompt medical attention. Repeated or prolonged inhalation exposure may cause central nervous system depression with dizziness,confusion,incoodination,drowsiness or unconsciousness. Gross overexposure may cause fatality.

Potential Health Effects

Skin : May cause: slight irritation, Redness.
Eyes : May cause eye irritation. Discomfort, tearing, Blurred vision.

Carcinogenicity

1,4-Dioxane is listed by IARC, NTP, or OSHA, as a carcinogen.

4. FIRST AID MEASURES

First Aid

INGESTION

Never give anything by mouth to an unconscious person. DO NOT induce vomiting unless directed to do so by a physician or poison control center.

INHALATION
Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.

SKIN CONTACT
In case of contact, wash with water and soap as a precaution.

EYE CONTACT
In case of contact, rinse with plenty of water. If eye irritation persists, consult a specialist.

General advice, when symptoms persist or in all cases of doubt seek medical advice.

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5. FIRE FIGHTING MEASURES

Flash point
None

Thermal decomposition
200 °C (392 °F)

Extinguishing Media
The product itself does not burn.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Fire Fighting Instructions
Wear self-contained breathing apparatus (SCBA). Wear suitable protective equipment.
Standard procedure for chemical fires.

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6. ACCIDENTAL RELEASE MEASURES

Spill Clean Up
Shovel into suitable container for disposal.

Accidental Release Measures
Prevent material from entering sewers, waterways, or low areas.

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7. HANDLING AND STORAGE

Handling (Personnel)

Avoid breathing vapors or mist from overheated material. Avoid contact with eyes,skins,clothing.Wash thoroughly after handling. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. Avoid circumstances that produce respirable particles unless suitable ventilation and respirator are used.

Storage

Store in well ventilated place. Keep container closed to prevent contamination.

Freezing will affect physical condition but will not damage.

Thaw and mix before using, keep away from open flames and heated surfaces above 200 deg C (392 deg F).

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

In the event that the polymer is heated above 200° C (392° F), local ventilation should be used to avoid exposure to fumes.

Personal protective equipment

Respiratory: No personal respiratory protective equipment normally required. In the case of hazardous fumes caused by overheating, wear self-contained breathing apparatus.

Hand:Additional protection: No particular glove type is recommended, but nitrile may used.

Eyes: Chemical safety goggles.

Skin and body protection : No PPE is specified however, avoid contact with skin, eyes, and clothing. Preventive skin protection.

Applicable exposure limits

1,4-Dioxane

PEL(OSHA)：100ppm，360mg/m3,8h.TWA.

TLV(ACGIH)：20ppm，8h.TWA.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid at 30 °C(86 °F)
Color : amber or brown
pH : 7~8
Boiling point/range : 200 °C (392 °F)
Specific gravity : 1.4 at 24 °C (75 °F)
Water solubility : sparingly water soluble

10. STABILITY AND REACTIVITY

Stability

Stable: stable under recommended storage conditions.

Conditions to avoid

Decomposition temperature 200 °C (392°F)

Polymerization

Polymerization will no occur.

11. TOXICOLOGICAL INFORMATION

Gemini® Fluoro Surfactant BH-10W

Oral ALD : > 17,000 mg/kg , rat
Skin irritation : slight irritation, rabbit
Eye irritation : slight irritation, rabbit
Sensitisation : Animal test did not cause sensitization by skin contact, guinea pig

$(C_2H_4O)_x(CF_2)_yC_2H_5FO$
Further information : The substance is a polymer and is not expected to produce toxic effects.

1,4-Dioxane
Inhalation : no toxicologically significant effects were found rat
Oral : no toxicologically significant effects were found rat
Carcinogenicity **:** Suspected human carcinogens
An increased incidence of tumours was observed in lab animals
Carcinogenicity **:** 1,4-Dioxane is listed by IARC, NTP, or OSHA, as a carcinogen.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity
96 hrs, LC50 : 61.7mg/l fathead minnows
96 hrs, TL50 : 140mg/l trout
48 hrs, EC50 : 12mg/l water flea
1,4-Dioxane
96 hrs, LC50 : >100mg/l killifish
72 hrs, EC50 : >1000mg/l green algae
48 hrs, EC50 : >1000mg/l water flea

13. DISPOSAL CONSIDERATIONS

Waste Disposal

In accordance with local and national regulations.

Environmental Hazards

Dispose of container properly.
If recycling is not practicable, dispose of in compliance with local regulations.

14. TRANSPORTATION INFORMATION

UNRTDG
Not regulated as a dangerous good
IATA-DGR
Not regulated as a dangerous good
IMDG-Code
Not regulated as a dangerous good

NOT classified as dangerous in the meaning of transport regulations

15. REGULATORY INFORMATION

EPCRA: Emergency Planning and Community Right-to-Know
TSCA : On the inventory, or in compliance with the inventory

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does NOT contain any components with a section 304 EHS 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: NO SARA Hazards
SARA 313 RegulatedChemical(s): 1,4-Dioxane

CERCLA Reportable Quantity : 2,000 lbs , Based on the percentage composition of this chemical in the product.: 1,4-Dioxane

Updated: May 26th, 2017