

Weiss Bonya

Gemini[®]

Hydrophobic Oleophobic Hardcoat

Material Safety Data Sheet

1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Product Name

“Gemini” Hydrophobic Oleophobic Hardcoat

Tradenames and Synonyms

“Gemini” AnO-168

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2. HAZARDS IDENTIFICATION

Classification according to Regulation 29CFR 1910 1200

Flammable liquid, Category 3, H226

Specific target organ toxicity - single exposure, Category 3, Central nervous system, H336

GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statements

H226 Flammable liquid and vapour

H336 May cause drowsiness or dizziness

Precautionary statements

Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P242 Use only non-sparking tools.

P261 Avoid breathing dust/fumes/gas/mist/vapours/spray.

Response

P305 + P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.P337 + P313

If eye irritation persists: Get medical advice/attention.

P370 + P378 In case of fire: Use dry sand dry powder CO2 to extinguish.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Other hazards

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Fluoropolymer	Trade secret	35~45%
n-Butyl Acetate	123-86-4	55~65%

Any unidentified components and/or concentrations (exact percentages) are considered trade secrets.

4. FIRST AID MEASURES

First Aid

INGESTION

If swallowed, wash out mouth with copious amounts of water provided person is conscious, call a physician.

INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

In case of contact, immediately wash skin with soap and water. Wash contaminated clothing before reuse.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

Most important symptoms and effects, both acute and delayed

Irritant effects, Respiratory paralysis, Drowsiness, Narcosis, Nausea, Vomiting, Headache, Somnolence, Salivation, Dizziness
Repeated exposure may cause skin dryness or cracking.

Indication of any immediate medical attention and special treatment needed

After swallowing of large amounts: Gastric lavage.

5. FIRE FIGHTING MEASURES

Extinguishing Media

Suitable extinguishing media

Foam, Carbon dioxide (CO₂), Dry powder

Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture

Combustible.

Pay attention to flashback.

Forms explosive mixtures with air at ambient temperatures.

Vapours are heavier than air and may spread along floors.

Development of hazardous combustion gases or vapours possible in the event of fire.

Fire Fighting Instructions

Protective equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific hazard(s): emits toxic fumes under fire conditions.

Further information: Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel) protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do. Take precautions to ensure product does not contaminate the ground or enter the drainage system.

Spill Clean Up

Absorb on dry sand or vermiculite, sweep up and place in container for disposal according to local regulations.

7. HANDLING AND STORAGE

Handling (Personnel)

User exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Advice on protection against fire and explosion: Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Hygiene measures: Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

Storage

Store in cool, well ventilated area. Keep container tightly closed. Keep away from heat and sources of ignition. Avoid direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

TWA, Time-weighted average, STEL, Short-term exposure limit

Component	CAS	Inst.	Standard
n-Butyl Acetate	123-86-4	ACGIH	TWA: 50 ppm STEL: 150 ppm
n-Butyl Acetate	123-86-4	EU	TWA: 150 ppm STEL: 200 ppm
n-Butyl Acetate	123-86-4	TW OEL	TWA: 150 ppm

Engineering controls

Safety shower and eye bath. Mechanical exhaust required. More detail see section 7

Personal protective equipment

Respiratory: Use a full-face respirator with multi-purpose combination (US) or type abek (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face approved under appropriate government standards such as NIOSH(US) or CEN(EU).

Hand: Protective gloves. gloves must be inspected prior to use.

Eyes: Chemical safety goggles.

General Hygiene measures

Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Transparent liquid
Odour: Fruity
Density: 0.83~0.87 g/cm³
Melting point: -70 °C
Boiling point /range: 120 °C
Solubility: insoluble in water
Flash Point: 27 °C
Lower explosion limit: 1.7%
Upper explosion limit: 7.6%
Explosive properties: Not classified as explosive

10. STABILITY AND REACTIVITY

Reactivity

No hazardous reaction under recommended use and storage.

Stability

Stable: stable under recommended storage conditions.

Materials to avoid

Strong oxidizing agents, finely divided active metals, alkali and alkaline earth metals.

Conditions to avoid

Heat, flames and sparks, extremes of temperature, moisture and direct sunlight.

Hazardous decomposition products

Hazardous decomposition products: no information available.

Hazardous polymerization

Hazardous polymerization: will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

n-Butyl Acetate

Oral: LD50 Rat: > 5,000 mg/kg

Dermal: LD50 Rabbit: > 5,000 mg/kg

Inhale: LC50 Rat: > 21.1 mg/l; 4 h

Fluoropolymer

Oral: LD50 Rat: 5,000 mg/kg

Dermal: LD50 Rabbit: > 5,000 mg/kg

Route of exposure

Inhalation: Irritating to the respiratory tract.

Ingestion: Risk of aspiration upon vomiting. Aspiration may cause pulmonary oedema and pneumonitis. Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Skin: No skin irritation.

Eyes: No eye irritation.

Signs and symptoms of long term exposure

Germ cell mutagenicity

Genotoxicity in vitro

Ames test

Salmonella typhimurium

Result: negative

Method: OECD Test Guideline 471

Mutagenicity (mammal cell test): chromosome aberration.

Result: negative

Carcinogenicity

This information is not available.

Reproductive toxicity

This information is not available.

Teratogenicity

This information is not available.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Target Organs: Central nervous system

Specific target organ toxicity - repeated exposure

This information is not available.

Aspiration hazard

This information is not available.

Further information

Systemic effects

Lack of appetite, Headache, Drowsiness, Dizziness

In high concentrations

Salivation, Nausea, Vomiting, narcosis, respiratory paralysis

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

12. ECOLOGICAL INFORMATION

Toxicity

n-Butyl Acetate

Fish: LC50 Fathead minnow: 18 mg/l; 96 h
Daphnia and other aquatic invertebrates: EC50 Water flea: 44 mg/l; 48 h
Algae: EC50 Green algae: 674.7 mg/l; 72 h
Fluoropolymer
No data available.

Persistence and degradability

n-Butyl Acetate
Biodegradability
83 %; 28 d
OECD Test Guideline 301D
Readily biodegradable
Theoretical oxygen demand (ThOD)
2,207 mg/g
Fluoropolymer
No data available.

Bioaccumulative potential

n-Butyl Acetate
Partition coefficient: n-octanol/water
log Pow: 2.3
(experimental)
(Lit.) Bioaccumulation is not expected.
Fluoropolymer
No data available.

Mobility in soil

No data available.

Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

Disposal operations

Material should be disposed of in accordance with local, state and federal regulations.

Disposal of packaging

Dispose of as special waste in compliance with local and national regulations
Observe all federal, state and local environmental regulations.

14. TRANSPORTATION INFORMATION

UN number (IATA- IMDG) : UN1133

Proper shipping name : ADHESIVE

Class (IATA- IMDG) : 3

Packing group (IATA- IMDG) : III

Environmental hazards : None

Marine pollutant : None

Special precautions for user : None

15. REGULATORY INFORMATION

IECSC: On the inventory, and in compliance with the CN regulations
EINECS: On the inventory, and in compliance with the EU regulations
ENCS: On the inventory, and in compliance with the JP regulations
KECI: On the inventory, and in compliance with the KR regulations
EPCRA: Emergency Planning and Community Right-to-Know
TSCA: On the inventory, and in compliance with the US regulations
AICS: On the inventory, and in compliance with the AU regulations

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: Fire Hazard, Acute Health Hazard

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

CERCLA Reportable Quantity : This material contains following components with a CERCLA RQ: n-Butyl Acetate CAS 123-86-4 RQ=2,268kg(5,000lbs)

16. OTHER INFORMATION

NFPA/HMIS Rating: Health: 1 Flammability: 3 Reactivity: 0

REFERENCE: Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 19th edit., 2015 UN Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012), GHS Classification Guidance for Enterprises 2013 Revised Edition.

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