



Material Safety Data Sheet

CHEMSORB 1130

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name : Mixof:a-3-(3-(2H-benzotriazol-2-yl)-5-t-butyl-4-hydroxyphenyl)propionyl-jhydroxypoly(oxyethylene);a-3-(3-(2H-benzotriazol-2-yl)-5-t-butyl-4-hydroxyphenyl)propionyl-j-3-(3-(2H-benzotriazol-2-yl)-5-t-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

CAS number : 104810-48-2 + 104810-47-1 + 25322-68-3

Company name : UV Chem-Keys Co., Ltd
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2. Health Hazards Data

CAS Number : 025973-55-1

Product Name : 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol

Content : 100 %

R-Phrase(s) : R48/22 - R53

3. HAZARDS IDENTIFICATION

May cause sensitization by skin contact.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

4. FIRST AID MEASURES (SYMPTOMS)

4. FIRST AID MEASURES (ACTION)

Skin contact : Wipe with absorbent paper or textile towels. Wash off with soap and plenty of water. Do not use organic solvents. In case of dermatitis, seek medical attention

Eye contact : Rinse immediately with plenty of water for at least 15 minutes. In case of eye irritation, seek medical attention

Ingestion : Immediately give plenty (> 500 ml) of water (if possible charcoal slurry). In case of spontaneous vomiting be sure that vomitus can freely drain due of danger of suffocation. Give water repeatedly. Artificial induction of vomiting should be restricted to first aid staff. Give nothing by mouth in cases of unconsciousness or convulsion. Seek medical advice

Inhalation : Move to fresh air. In case of irritation of respiratory system or mucous membranes, seek medical attention. If affected



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person feels unwell, seek medical advice. In case of prolonged exposure, seek medical attention

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media** : Water spray, Foam, Carbon dioxide (CO₂), Dry powder
- Extinguishing media which must not be used for safety reasons** : High volume water jet
- Exposure hazards** : Contaminated water from fire hoses or sprinklers, etc., must be prevented from draining into watercourses, sewers, or the ground water. Sufficient measures must be taken to retain water used for extinguishing. Contaminated water and soil must be disposed of in conformity with local regulations
- Special protective equipment for firefighters** : Wear full protective clothing. Wear self-contained breathing apparatus.
- Hazardous decomposition products** : Oxides of carbon, Oxides of nitrogen (NO_x), Toxic gases/vapours

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Avoid contact with skin, eyes and clothing.
- Environmental precautions** : Do not flush into surface water, sanitary sewer or ground water system
- Methods for cleaning up** : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect the spilled product into suitable containers, which must be tightly sealed and properly labelled

7. HANDLING AND STORAGE

- Handling** : Sensitizing. Dangerous for the environment. Handle and open container with care. Avoid vapour formation and ignition sources. Ensure good local exhaust ventilation. Do not eat, drink or smoke at the workplace
- Storage** : Keep away from food and drink. Store in the original container securely closed. This product can form an ignitable vapour/air mixture. Take precautionary measures against static discharges, e.g. by using proper earthing techniques

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Exposure limit(s)** : Value 1.0 mg/m³
- internal exposure limit (8 hour)* : Justification to exposure limit



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time weighted average)

- Technical measures/Precautions** : Exposure limit(s) should be monitored using suitable analytical equipments
- Respiratory protection** : In case of insufficient ventilation wear suitable respiratory equipment
- Hand protection** : Protective gloves
- Eye protection** : Suitable goggles or face protection
- Skin and body protection** : Working clothes , Closed footwear

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form** : liquid
- Colour** : yellow to light brown
- Odour** : odourless
- Melting/freezing° C** : -40 °C
- Boiling point/range° C** : 166 °C
- Density 20 °C** : 1.17 g/cm³
- Flash point° C** : 114 °C DIN 51758
- Ignition Temperature** : 405 °C DIN 51794
- Oxidising properties** : not applicable
- Self-ignition temperature** : not tested
- Water solubility 20 °C** : 7.7 mg/l
- Partition coefficient; Log Pow** : not applicable
- pH-value 1 % suspension in water 20 - 25°C** : Log Pow 20 - 25°C > 6
- Dynamic Viscosity 20 °C** : 7400 mPa.s
- Explosive properties** : not explosive

10. STABILITY AND REACTIVITY

- Decomposition temperature** : > 250 °C
- Conditions to avoid** : Static discharges
- Materials to avoid** : Strong acids, strong bases and strong oxidising agents
- Hazardous decomposition products** : Oxides of carbon, Oxides of nitrogen (NO_x), Toxic gases/vapours



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11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity** : LD50 > 2000 mg/kg
Rat
- Acute dermal** : not irritant
irritation/corrosion *Rabbit*
- Acute eye** : not irritant
irritation/corrosion
- Acute skin sensitisation** : sensitising
Guinea pig

12. ECOLOGICAL INFORMATION

- Acute toxicity to fish** : LC50 2.8 mg/l
Fish general (Pisces)
- Acute toxicity to daphnia** : EC50 3.8 mg/l
Daphnia magna
- Acute toxicity to bacteria** : IC50 not tested
Bacteria
- Acute toxicity to algae** : EC50 > 10 mg/l
- Acute toxicity to algae** : EC50 > 9 mg/l No effects at the highest tested concentration
- Biodegradability** : Not biodegradable
- Ecotoxic effects** : Do not discharge product uncontrolled into the environment

13. DISPOSAL CONSIDERATIONS

- Waste from residues / unused products** : **Waste from residues / unused products**
Residual chemical should be disposed by incineration or by other modes of disposal in compliance with local legislation
- Contaminated packaging** : Contaminated packaging material should be treated equivalent to residual chemical. Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation.

14. Transport information

- Flash point** : 114 °C
- ADR/RID Class** : Class: 9
Cipher: 11C
UN No.: 3082
Proper shipping name: ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S. Additional Information: BENZOTRIAZOLE



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DERIVATIVE MIXTURE

IMO Class : Free
ICAO Class : Free

15. REGULATORY INFORMATION

EC-Number : 400-830-7

Contains : Mixof:a-3-(3-(2H-benzotriazol-2-yl)-5-t-butyl-4-hydroxyphenyl)propionyl-jhydroxypoly(oxyethylene);a-3-(3-(2H-benzotriazol-2-yl)-5-t-butyl-4-hydroxyphenyl)propionyl-j-3-(3-(2H-benzotriazol-2-yl)-5-t-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

Classification : Classification according to EU, Annex 1; EC Label

Symbol(s) : Xi Irritant
N Dangerous for the environment

R-Phrase(s) : R43 May cause sensitization by skin contact.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-Phrase(s) : S36/37 Wear suitable protective clothing and gloves.
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

S36 Wear suitable protective clothing.

S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

16. Other information

Legal disclaimer : The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.