

## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATIONS OF THE SUBSTANCE/PRODUCT AND COMPANY/ENTERPRISE

Commodity Name of the Chemical:: Hindered amine light stabilizer uv 2020

Chemical Name in English:N,N'-Bis(2,2,6,6-tetramethyl-4-piperidiny)-1,6-hexanediamine polymer with 2,4,6-trichloro-1,3,5-triazine reaction products with N-butyl-1-butanamine and N-butyl-2,2,6,6-tetramethyl-4-piperidinamine

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### 2. HAZARD IDENTIFICATION

Classification of pure substances and mixtures:

According to the GHS standard, the product does not need to be classified.

Label elements and cautionary statements: According to the GHS standard, the product does not need to add a hazard warning label

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical nature: Substance

Hindered amine light stabilizer

Pure

### 4. FIRST AID MEASURES

General advice:

Take off contaminated clothing.

If inhaled:

If discomfort after inhalation of dust, moved to fresh air, medical treatment.

skin contact:Wash thoroughly with soap and water.

eye contact:Turn the eyelid and wash it contaminated eyes with water for at least 15 minutes.

Feeding:Wash the mouth, and then drink plenty of water.

Doctors note:Treatment: symptomatic treatment (removal of dirt, attention to life disease), no special antidote.

### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:Dry powder, foam

Fire extinguishing media not applicable for safety reasons:carbon dioxide

Supplementary information (information):

Due to the risk of dust explosion, it should avoid hoisting material / product.

Special hazards:Harmful vapor

The formation of smoke:will release the substance / substance group mentioned when catch fire

Special protective equipment: Wear self-contained breathing apparatus.

More information:

The degree of danger depends on the burning of the substance and the fire. Disruptible fire water must be disposed of in accordance with official regulations.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:Avoid forming dust. Wear personal protective clothing.

Environmental pollution prevention:Collection of contaminated water / fire water shall not be discharged into drains / surface water systems / groundwater systems.

Clean up or collect methods:

Small amount: Choose the right instrument to handle.

Large: contains dust adsorption material and treatment.

Avoid forming dust.

## **7. HANDLING AND STORAGE**

Operation Disposal:In the absence of exhaust ventilation device when dumping a large number of products, must use the respiratory protection.

Fire explosion:Avoid forming dust. Precautions against static electricity.

Store:For more information on storage conditions: keep the container sealed, dry, stored in a cool place.

## **8. EXPOSURE CONTROL AND PERSONAL PROTECTION**

There are components of workplace harmful factors that meet the limits required

Dust in the workplace

Personal protective equipment

Respiratory protection:Suitable for high or long-term exposure to respiratory protection: EN 143 or 149, P1 or FFP1 type particle filter

Hands protection:

Protective gloves.Suitable for long-term, direct contact with the material.Such as nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinyl chloride (0.7 mm) and other materials.Due to the wide variety of gloves, follow the glove manufacturer's instructions.

Eye protection:Security glasses with bordering.

Body protection:Work clothes. Bunched shoes.

General safety and hygiene measures:

According to excellent industrial hygiene and safety practices. It is recommended to wear a closed clothes.

## **9. PHYSICOCHEMICAL PROPERTIES**

Shape: Fixation

Colour: White to cheese color

Odor: Tasteless

Melting point:120-150°C ( European Economic Community 92/69 / EEC)Cited, A.1)

Flash point: Not applicable

Burning temperature:110 °CSee user-defined text.

Thermal decomposition:> 300 °C

Spontaneous: Not spontaneous.(Method: European Economic Community 92/69 / EEC, A.16)

Risk of explosion: Explosive, explosive

Flammability: No flammability.

Bulk density:1.01g /l

Solubility in water:<0.5 mg / ( 20°C)

Solubility (Quantification) Solvent: Dichloromethane > 150 g / l

Solubility (quantitative) Solvent: octan-1-ol> 10 g / l

Octanol / water partition coefficient (log Pow):> 10(20-25 °C) (Calculated)

## 10. STABILITY AND REACTIVITY

Need to avoid:

To prevent electrostatic discharge. :

Thermal decomposition: > 300 °C

Things to be avoided: Strong acid, strong base, strong oxidizer

Hazardous Reactions: Even if the dust is based on industrial health, dust particles are still dusty.

Hazardous decomposition products. :Such as storage and handling in accordance with regulations / instructions, without hazardous decomposition products.

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Experiment / Calculated data:

Semi-lethal dose Rat (oral): > 2,000 mg / kg (OECD guideline 401)

Irritation

Experiment / Calculated data:

Skin corrosive / irritating rabbits: non-irritating (OECD guidelines 404)

Eyes severe damage / irritation Rabbit: non-irritating (OECD Organizational Approach 405)

Breathe / skin allergy

Experiment / Calculated data:

Guinea pigs: no allergenic. (Economic Cooperation and Development Organization Policy 406)

Germ cell mutations

Experiment / Calculated data: Ames-test (OECD Guideline 471)

Negative reaction

Repeated dose toxicity and specific target organ toxicity (repeated exposure)

Experiment / Calculated data:

Subacute toxicity

Rat (OECD Guideline 407)

NOAEL: 50 mg / kg

## 12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish:

Semi-lethal concentration (96 h) > 100 mg / l, zebrafish (OECD 203; ISO 7346; 92/69 / EEC, (Based on loading rate)

Aquatic invertebrates:

Semi-effective concentration (24 h) > 100 mg / l, large daphnia (OECD guideline 202 Part 1)

Supplementary information (information)

Other ecological toxicity recommendations:

Do not uncontrollably discharge the product into the environment.

## 13. DISPOSAL CONSIDERATIONS

Must be dumped into the landfill or incinerated in accordance with local regulations.

Contaminated packaging:

Uncontaminated packaging can be reused.

A clean package that can not be cleaned should be disposed of in the same way as its contents.

## 14. TRANSPORT INFORMATION

Land transport

Road transport: According to the rules of transport, do not include dangerous goods

Rail transport: According to the rules of transport, do not include dangerous goods

Inland river transport: According to the rules of transport, do not include dangerous goods

Sea transport IMDG

According to the rules of transport, do not include dangerous goods

Not classified as a dangerous good

Transport regulations

air freight IATA / ICAO

According to the rules of transport, do not include dangerous goods

Not classified as a dangerous good

## **15. REGULATORY INFORMATION**

EU legislation ((Labeling))

In accordance with EC guidelines, the product does not need to post a hazard warning label.

Other regulations

Registration:

IECSC, CN Has been released / included

This Safety Technical Specification is produced in accordance with the Chemical Classification and Hazard Communication.

This product is subject to the Regulations on Safety Management of Dangerous Chemicals. (If defined as a dangerous chemical under GHS rules)

This product is subject to the Law of the People's Republic of China on Drug Administration (if the product is applied to pharmaceuticals), the Regulations on the Administration of Feed and Feed Additives (If the product is used in feed) and the Food Safety Law of the People's Republic of China (if the product is used in food).

## **16. OTHER INFORMATION**

Not suitable for use: This material is not intended for use in products specially designed for prolonged exposure to mucous membranes, body fluids, skin lesions or implantation of the human body

, Unless its final product has been tested in accordance with national and international safety testing requirements. Because of its potential use of the range of very. We can not make any recommendations as to whether this material can be safely and effectively applied to these uses and does not assume any responsibility for these uses responsibility.