We create chemistry

Safety Data Sheet

1. Chemical Product and Company Information

Tinuvin® 400-DW (N)

Use: Coating raw material for industrial applications, minor stabilizer

Company:
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2. Hazards Identification

Classification of substances and compounds:
Caustic/skin irritation: Cat. 3
Acute hazard to the aquatic environment: Cat. 2

Product labeling and hazard warnings:

Warning: Warning

Risk warning:

H316	Causes minor skin irritation
H401	Toxic to aquatic life

Preventive measures:

P273	Avoid discharge into the environment

Notes on contact:

P332+P313	If skin irritation occurs: Get medical help

Notes on disposal:

P501	Dispose of chemicals inside the tank to a hazardous or special waste collection point.

Other hazards that are not classified:
No specific hazards, considering storage and handling regulations/notes.

3. Information on Ingredients

The nature of chemicals

Substance state: a mixture of mild stabilizers, solution

Hazardous ingredients

Alkyl ether sulfate C12-14 with EO, sodium salt

Concentration (W/W): >= 1 % - < 3 %	Skin Corr./Irrit.: Cat. 2
CAS No: 68891-38-3	Eye Dam./Irrit.: Cat. 1
	Aquatic Acute: Cat. 2

Zinc, bis[1-(hydroxy-.kappa.O)-2(1H)-pyridinethionato-.kappa.S2]-, (T-4)-

Concentration (W/W): >= 50	Acute Tox.: Cat. 2 (Respiration - dust)
PPM - <100 PPM	Acute Tox.: Cat. 3 (oral contact)
CAS No: 13463-41-7	Eye Dam./Irrit.: Cat. 1
	Aquatic Acute: Cat. 1
	Aquatic Chronic: Cat. 1
	Repr.: Cat. 1B (fetus)
	STOT RE: Cat. 1
	M- acute factor: 1000
	M- acute factor: 10

4. First Aid Measures

General advice: Remove contaminated clothing.

If inhaled: If discomfort occurs after inhaling vapors/aerosols, move to fresh air and call a physician.

In case of skin contact: Wash thoroughly with soap and water.

Eye contact: Flush-affected eyes for at least 15 minutes under running water with eyelids wide open.

When swallowed: Gargle then drink about 200-300 ml of water. Do not induce vomiting unless directed by a poison control center or doctor.

Note to doctors:

Symptoms: Other symptoms and/or effects are not known yet

Treatment: Treatment according to symptoms (detoxification, vital function), no specific antidote.

5. Fire Fighting Measures

Suitable extinguishing media: Water spray, dry powder, foam.

Specific hazards: harmful vapors. Evolution of smoke/mist. The substances/groups of substances mentioned can be released on fire.

Additional information: Chemically contaminated firefighting water must be disposed of according to official regulations.

6. Accidental Release Measures

Personal warnings: Use protective clothing.
Environmental warning: Contains contaminated water/fire fighting water. Do not discharge into sewers/surface water/groundwater.
Method of cleaning or collection:
For large volume: Product suction pump.
For the remainder: Collect with suitable absorbent material. Dispose of absorbent material according to regulations.

7. Requirements For Use And Storage

User manual:

No special procedures are necessary provided the product is used correctly.
Fire prevention: No special warning is needed.
Storage instructions:

Additional information on storage conditions: Close tightly and store in a cool place
Storage stability: Storage temperature: 10 - 30°C.

8. Exposure Controls/Personal Protection

Control parameters/Occupational exposure limits:

There are no known specific occupational exposure limits.

Personal protective equipment

Respiratory protection:
Respiratory protection when vapor/aerosol is released. Particulate filter of medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2).

Hand protection:
Chemical protective gloves.
Materials suitable for prolonged, direct contact (recommended: Protection in annex 6, corresponding penetration time > 480 min according to EN ISO 374-1): e.g. nitrile rubber (0.4) mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and others.
Additional Note: The parameters are based on the glove manufacturer's experiments, theoretical data, and information or are derived from similar substances by analogy. Depending on various conditions (such as temperature), the actual use of chemical-resistant gloves can be much shorter than the penetration times determined by experiments.
Manufacturer's instructions for use should be followed due to the variety of types

Protect eyes:
Safety glasses with edge guards.

General hygiene and safety standards:
Handle according to industrial hygiene and safety rules. It is recommended to wear appropriate clothing when working.

9. Physical and chemical properties

Physical state:	Liquid
Color:	White to beige
Odor:	Light smell
Odor threshold:	Not applicable
pH:	6.0 - 9.5
Crystallization temperature:	Equivalent to 0 °C
Boiling point:	Equivalent to 100 °C
Flash point:	Not applicable, based on high water content, no flash point determination is necessary.

Evaporation speed:	Undefined
Flammability (solid/gas):	Non-flammable
Lower explosive limit (LEL):	Liquids for which classification and labeling regulations are not applicable., the lower explosive limit may be lower from 5-15 °c above flash point.
Upper explosive limit (UEL):	Liquids for which no classification and labeling regulations apply.
Auto-ignition temperature:	Not applicable
Thermal decomposition:	No decomposition if stored and used as directed/specified
Self-igniting:	Not self-igniting
Explosion hazard:	No explosion
Fire-intensifying properties:	No flame spread
Vapor pressure:	Equivalent to 23.4 hpa (20°C) containing water
Density:	1.00 - 1.05 g/cm3 (20°C)
Relative Density:	1.0 - 1.05 (20°C)
Vapor density (air):	Not determined
Solubility in water:	Dispersible
Moisture test:	Not hygroscopic
Solubility (qualitative) solvent(s):	Soluble aliphatic hydrocarbons
Partition coefficient n-octanol/water (Pow plot):	No studies needed.
Viscosity, dynamic:	10 - 50 mpa.s
Content of solids:	20%

10. Stability and reactivity

Conditions to avoid: Avoid overheating.

Thermal decomposition: No decomposition if stored and used as directed/specified.

Substances to avoid: strong acids, strong bases, strong oxidizing agents.

Hazardous Reactions: No dangerous reactions have occurred when stored and used according to instructions.

Hazardous decomposition products: No hazardous decomposition products if stored and handled as shown/show.

11. Toxicological information

Acute toxicity

Experimental/calculated data:
LD50 rat (oral): > 2,000 mg/kg
Product not tested. The report is based on the properties of each element.

LC50 rat (by inhalation): 4 h
Undefined

LD50 rat (skin): > 2,000 mg/kg
Product not tested. The report is based on the properties of each element.

Irritation

Experimental/calculated data:
Skin corrosion/irritation rabbit: Slightly irritating.
Product not tested. The report is based on the properties of each element.

Serious eye damage/irritation rabbit: non-irritating
Product not tested. The report is based on the properties of each element.

Skin/respiratory allergies

Sensitivity Rating:
Skin sensitization effects have not been observed in animal studies. Product not tested. The report is based on the properties of each element.

Experimental/calculated data:
Maximization experiment on guinea pigs: No sensitization.
Product not tested. The report is based on the properties of each element.

Causes cell mutations

Assessment of mutagenicity:
Based on the finished product, there is no evidence of a mutagenic effect gen. The product has not been tested. The report is based on the properties of each element.

Carcinogen

Assessment of carcinogenic potential:
No data available.

Toxic to reproduction

Assessment of reproductive toxicity:
No data available.

Increased toxicity

Evaluation of teratogenic problems:
No data available.

Specific target organ toxicity (single exposure):

Rating of own STOT:
According to the available information, no specific organ toxicity was detected after a single exposure to the chemical.
Note: The product has not been tested. The report is based on the properties of each element.

Specific target organ and repeat dose toxicity (repeated exposure)

Evaluation of repeated dose toxicity:
No data available.

Risk of inhalation

No inhalation hazard observed.

12. Ecological information

Ecotoxicity

Assessment of toxicity to the aquatic environment:
Acute toxicity to aquatic life. Product not tested. The report is based on the properties of each element.

Toxic to fish:
LC50 (96 h) > 1 - 10 mg/l, Fish
Product not tested. The report is based on the properties of each element.

Aquatic Invertebrates:
LC50 (48 h), plankton daphnia (other)
Undefined

Aquatic plants:
EC50 (72 h), algae (other)
Undefined

Microorganism/Effect on activated sludge:
EC50 (0.5 h), bacteria (other)
undefined

Chronic toxicity to fish:
No data available.

Chronic toxicity to aquatic invertebrates:
No data available.

Assessment of toxicity to terrestrial animals:
There are no data related to a toxic effect on terrestrial organisms.

Unstable characteristics

Judging between the transportation and the environmental bill:
No data available.

Durability and metamorphosis

Assessment of biodegradability and reduction (H2O):
Not rapidly degradable (according to OECD standards). Product not tested. The report is based on the properties of each element.

Bioaccumulation potential

Assessment of biodegradability:
No significant accumulation potential in biomass.
Product not tested. The report is based on the properties of each element.

Additional information

Additional notes on environmental damage and processes:
Treatment in biotech wastewater treatment plants must comply with local regulations.

Other ecotoxicological tips:
Do not release the product into the environment without control

13. Dispossal consideration

Must be disposed of or incinerated in accordance with local regulations.

Chemically contaminated packaging:
Uncontaminated packaging can be reused.
Packages that cannot be cleaned should be disposed of in the same manner as contaminated packaging.

14. Transportation information

Domestic shipping: Not classified as dangerous goods according to transport regulations.

Sea transport
IMDG
Not classified as a dangerous good under transport regulations

Air transport
IATA/ICAO
Not classified as a dangerous good under transport regulations

15. Refulatory information

Other regulations

16. Other necessary information, including information when developing and editing the chemical safety sheet

The straight lines in the left margin show some corrections from the previous version.
The information in this chemical safety sheet is compiled based on valid and up-to-date knowledge about hazardous chemicals and must be used to take measures to prevent risks and accidents. The Chemical Safety Data Sheet only describes the product in relation to the safety requirements. The data does not describe product attributes (specifications). The user of the product is responsible for the ownership rights and applicable laws and regulations.