

Material Safety Data Sheet

Quick Identifier: Super Retarder 100-VR-1170

Nazdar Company
1087 North Branch St.
Chicago, IL 60622

Hazard Ratings: Health 2
Flammability 2
Reactivity 0

Section I

Distributors: ITW Imtran. **Information:** Tel: +49-6198-3040 (RUCO)
Address: 39 Shelley Road Tel: 978-372-3443 (Imtran)
City/State/Zip: Haverhill, MA 01835 Fax: 978-372-9817

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Section II Hazardous Ingredients

Hazardous Component(s) (Chemical & Common name(s))	OSHA PEL (ppm)	ACGIH TLV (ppm)	Other Exposure Limits (ppm)	Range (weight-%)	CAS-No.
Isophorone	25 ppm	5 ppm	4 ppm TWA(NIOSH)	> 50	78-59-1

The product does not contain any ingredients being classified toxic according to EU regulations

Section III Physical & Chemical Characteristics

Boiling Point 215°C (419°F)	Specific Gravity (H2O = 1) .92	Vapor Pressure (mbar) 1.3
Vapor Density 4.77	Heavier than air	VOC (ingredients with vapor pressure > 0.1 mbar) 923 g/l
Solubility In Water insoluble	Reactivity In Water none	
Appearance & Odor Clear liquid with a strong chemical odor		Melting Point Unknown

Section IV Fire & Explosion Data

Flash Point 82.7°C (181°F)	Method Used Closed cup	Flammable Limits In Air % by Volume	LEL (Lower) .8	UEL (Upper) 3.8
Auto-Ignition Temperature 462°C (864°F)	Extinguishing Media Chemical powder, foam, carbon dioxide			
Special Fire Fighting Procedures	Use self contained breathing apparatus. Foam in large quantities. Cool endangered containers with water.			
Unusual Fire & Explosion Hazards	Heat, sparks, open fire or static electricity may cause combustion of the product. Closed containers may explode when exposed to extreme heat. When pouring liquid from one container to another, keep both containers well grounded.			

Section V Physical Hazards (Reactivity Data)

Stability Unstable () Conditions Heat, sparks, open flame
Stable (X) To Avoid

Incompatibility (Materials to Avoid) Strong oxidizers

Hazardous Decomposition Products Carbon dioxide, carbon monoxide, noxious gases

Hazardous Polymerization May Occur () Conditions
Will Not Occur (X) To Avoid

Section VI Health Hazards

1. Acute Dermatitis **2. Chronic** Conjunctivitis, kidney damage

Signs & Symptoms of Exposure: In case of overexposure: Dizzy feeling, headache, reddening of the skin, irritation of the eyes. Ingestion can cause gastro-intestinal tract disturbances.

Medical Conditions Generally Aggravated By Exposure: skin/lung disorders-repeated contact may cause sensitization

Chemical Listed as Carcinogen or Potential Carcinogen National Toxicology Program ()Yes (X)No OSHA ()Yes (X)No
I.A.R.C. Monographs ()Yes (X)No

Emergency & First Aid Procedures **Routes of Entry:**
Inhalation Fresh air supply.
Eyes Rinse immediately with plenty of water. See a physician for medical treatment.
Skin Wash immediately with soap and water.
Ingestion Call medical assistance.

Section VII Special Precautions & Spill/Leak Procedures

Precautions To Be Taken In Handling & Storage Use only with skin and eye protection. Keep away from ignition sources. Avoid contact with skin, eyes and mucous membranes. Do not eat, drink or smoke during handling. Do not empty into drains.

Steps To Be Taken In Case Material Is Released Or Spilled Remove sources of ignition and ventilate polluted area. Take up remnants with liquid-binding material like sand, kieseguhr, etc. All spills should be cleaned up immediately.

Waste Disposal Methods (Consult Federal, State & Local Regulations) Follow federal, state and local regulations to dispose of or incinerate waste material.

Section VIII Special Protection Information/Control Measures

Respiratory Protection (Specific Type) Use sufficient ventilation to keep vapor concentration below TLV-value.

Ventilation Local Exhaust (yes) Mechanical (general) Special --- Other ---

Protective Gloves Chemical resistant gloves (rubber)

Eye Protection Chemical resistant and splash-proof safety goggles

Other Protective Clothing or Equipment: solvent resistant aprons are strongly recommended

Work/Hygienic Practices Do not eat, drink or smoke during handling. Remove contaminated clothing.

The information contained herein is based on technical data believed to be reliable. However, since the conditions under which this information may be applied are beyond our control, we can assume no liability for results of its application.