

1 IDENTIFICATION**Product Identifier**

Product Name: SABO®STAB UV 79

Recommended Use and Restrictions of Use

Recommended Use: Light stabilizer for plastics, coatings, and other materials

Restrictions of Use: This product is not intended for use as a direct additive in foods, drugs, cosmetics, pesticides, or in products for which prolonged contact with mucous membranes or abraded skin, or implantation within the human body is specifically intended.

Name, Address, and Telephone Number of the Responsible Party

Company: SABO S.p.A.
Address: Via Caravaggi
24040 Levate (BG)
ITALY
Telephone: +39 035 596000
FAX: +39 035 594400
E-Mail: sds@sabo.com

Emergency Telephone Number

CHEMTREC: 1 (800) 424-9300

Contact only in the event of chemical emergencies involving spill, leak, exposure, or accident involving this chemical.

2 HAZARD(S) IDENTIFICATION**Classification of the Substance**

This product is classified as hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR §1910.1200) and WHMIS 2015.

Hazard(s): EYE DAMAGE/IRRITATION (CATEGORY 1)
ACUTE TOXICITY – INHALATION (CATEGORY 4)
COMBUSTIBLE DUST (WHMIS CATEGORY 1)

Signal Word, Hazard Statements, Symbols, & Precautionary Statements

Signal Word: DANGER
Hazard Statement(s): Causes serious eye damage
Harmful if inhaled
May form combustible dust concentrations in air

Hazard Pictogram(s):



Precautionary Statements(s):

- Avoid breathing dust. Use only outdoors or in a well-ventilated area. Wear eye protection/face protection.

- **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.
- **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

Hazards Not Otherwise Classified (HNOC)

Physical HNOC Not applicable (N/A)
 Health HNOC Not applicable (N/A)

Other Classifications

NFPA



HMIS®

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0

3 COMPOSITION / INFORMATION ON INGREDIENTS

This product contains the following component(s) classified as health hazards according to the 2012 OSHA Hazard Communication Standard (29 CFR §1910.1200) and WHMIS 2015.

Chemical Name	CAS No.	Wt. %
1,6-Hexanediamine, N1,N6-bis(2,2,6,6-tetramethyl-4-piperidinyl)-, polymer with 2,4-dichloro-6-(4-morpholinyl)-1,3,5-triazine	82451-48-7	≥ 90

4 FIRST AID MEASURES
Description of Necessary Measures

Eyes In case of contact with eyes, rinse immediately with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. Get medical attention immediately.

Inhalation Remove to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration and get immediate medical attention. Get medical attention if person feels unwell.

Skin Wash immediately with plenty of soap and water. Get medical attention if irritation or rash occurs.

Ingestion Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have person lean forward to reduce the risk of aspiration. Get medical attention immediately.

Most Important Symptoms / Effects, Acute and Delayed

Eyes Causes serious eye damage.
Inhalation Harmful if inhaled.
Skin May cause skin irritation.
Ingestion May be harmful if swallowed.

Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary

Notes to Physician: May aggravate pre-existing eye and respiratory conditions.

5 FIRE FIGHTING MEASURES**Suitable (and Unsuitable) Extinguishing Media**

Suitable Use water or carbon dioxide (CO₂) to extinguish fire.

Unsuitable None known

Specific Hazards Arising from the Chemical

Explosion: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Burning produces heavy smoke, and may produce hazardous combustion products, including carbon monoxide, carbon dioxide, oxides of nitrogen, and other toxic gases.

Special Protective Equipment and Precautions for Firefighters

Standard protective equipment for fighting chemical fires should be used, including self contained breathing apparatus (SCBA) and full fire fighting turn-out gear (full Bunker gear).

Caution: CO₂ used for extinguishing will displace air in confined spaces and may cause an oxygen deficient atmosphere.

Move undamaged containers from the immediate hazard area if it can be done safely.

Water used for extinguishing a fire must be prevented from draining into sewers or being released to the environment.

6 ACCIDENTAL RELEASE MEASURES**Personal Precautions, Protective Equipment, and Emergency Procedures**

Avoid personal contact. Wear personal protective equipment (See Section 8: Exposure Controls / Personal Protection). Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all sources of ignition and do not breathe dust.

Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (*i.e.* clearing dust surfaces with compressed air). Non-sparking tools should be used.

Environmental Precautions

Do not release to the environment. Do not allow substance or water used for washing to enter into surface water or drains. Collect spillage.

Methods and Materials for Containment and Cleaning Up

Remove all sources of ignition. Sweep up and collect material into suitable containers for reuse or disposal (See Section 13: Disposal Considerations). Use explosion-proof equipment for cleanup that has been designed for use with combustible dusts.

7 HANDLING AND STORAGE**Precautions for Safe Handling**

Do not breathe airborne dust, and avoid contact with eyes and skin. Use only outdoors or with adequate ventilation. Do not eat, drink, or use tobacco products while working.

May form combustible dust concentrations in air. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and



mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

Conditions for Safe Storage, Including Any Incompatibilities

Keep container tightly closed in a cool, dry, and well-ventilated place.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Control Limits

1,6-Hexanediamine, N1,N6-bis(2,2,6,6-tetramethyl-4-piperidinyl)-, polymer with 2,4-dichloro-6-(4-morpholinyl)-1,3,5-triazine CAS No. 82451-48-7	Not applicable (N/A)
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Appropriate Engineering Controls

Work in well ventilated areas. The use of local exhaust ventilation is recommended to control air contaminants. Provide mechanical ventilation for confined spaces. Use explosion-proof ventilation equipment. Use mechanical handling to reduce human contact with materials.

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment.

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (*i.e.* there is no leakage from the equipment).

Use only appropriately classified electrical equipment and powered industrial trucks.

Individual Protective Measures, Such as Personal Protective Equipment

General Hygiene	Do not breathe airborne dust. Avoid contact with eyes and skin. Wash thoroughly after handling and before eating, drinking, or using tobacco products. Eye wash station should be available in the immediate work area.
Eye/Face Protection	Wear safety glasses with side shields or safety goggles.
Skin Protection	Wear chemical resistant protective gloves impervious to the conditions of use and protective clothing.
Respiratory Protection	Wear NIOSH-approved respiratory protection if exposure to airborne dust is possible and in non-routine or emergency situations.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	off-white pastilles
Odor	odorless
Odor Threshold	no information available
Physical State	solid
pH value	no information available
Melting (Softening) Range	90-100°C
Boiling Point	no information available
Flash Point	no information available



Safety Data Sheet for SABO[®] STAB UV 79

This SDS complies with the 2012 OSHA HCS and WHMIS 2015.

Evaporation Rate	no information available
Flammability	no information available
Upper Flammability Limit	no information available
Lower Flammability Limit	no information available
Vapor Pressure	no information available
Vapor Density	no information available
Specific Gravity	no information available
Solubility in water	no information available
Partition Coefficient (octanol/water)	no information available
Autoignition Temperature	no information available
Decomposition Temperature	no information available
Viscosity	not applicable (N/A)

10 STABILITY AND REACTIVITY

Reactivity

No reactivity hazards known under normal ambient and anticipated storage and handling conditions.

Chemical Stability

Stable under normal ambient and anticipated storage and handling conditions.

Possibility of Hazardous Reactions

None known

Conditions to Avoid

Electrostatic discharge and ignition sources, formation of small particles (combustible dust, may be harmful if inhaled)

Incompatible Materials

Strong oxidizing agents, strong reducing agents, strong acids, strong bases

Hazardous Decomposition Products

Burning may produce heavy smoke and hazardous combustion products, including carbon monoxide, carbon dioxide, oxides of nitrogen, and other toxic gases.

11 TOXICOLOGICAL INFORMATION

Signs and Symptoms of Overexposure, Acute and Delayed

Eyes	Causes serious eye damage.
Inhalation	Harmful if inhaled.
Skin	May cause skin irritation.
Ingestion	May be harmful if swallowed.
Target Organ Effects	no information available
Chronic Effects	no information available

Acute Toxicity

Oral	Rat, LD ₅₀ > 2,000 mg/kg
Inhalation	Rat, LC ₅₀ (4 hr) = 2.8-3.0 mg/L
Dermal	Rat, LD ₅₀ > 2,000 mg/kg

Classified as Acute Toxicity – Inhalation (Category 4).



Skin Corrosion / Irritation

Not classified as a skin irritant based on test results in rabbits.

Eye Damage / Irritation

Classified as an eye irritant (Category 1) based on test results in rabbits.

Sensitization

Respiratory Sensitization no information available

Skin Sensitization Not classified as sensitizing based on test results in guinea pigs.

Germ Cell Mutagenicity

no information available

Carcinogenicity

Not classifiable due to lack of data. None of the components in this product at concentrations greater than 0.1% are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

Reproductive Toxicity

no information available

Target Organ Toxicity

Single Exposure no information available

Repeat/Prolonged Exposure no information available

Aspiration Hazard

no information available

12 ECOLOGICAL INFORMATION

Ecotoxicity

Acute toxicity - fish *Danio rerio*, LC₅₀ (96 hr) = 2.25 mg/L

Acute toxicity - algae no information available

Acute toxicity - invertebrates no information available

Acute toxicity - bacteria no information available

Toxic to aquatic life with long lasting effects.

Persistence and Degradability

Not readily biodegradable

Bio-accumulative Potential

no information available

Mobility in Soil

no information available

Other Adverse Effects

no information available

13 DISPOSAL CONSIDERATIONS

Recover or recycle if possible.

Disposal of product and contaminated packaging should be in accordance with applicable local, regional, national, and international laws and regulations. Local regulations may be more stringent than regional or national requirements.



14 TRANSPORT INFORMATION

UN Number

3077

UN Proper Shipping Name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Technical Name

Hindered amine derivative

Transport Hazard Class(es)

9

Packing Group

III

Environmental Hazard(s)

DOT: This product is not classified as a Marine Pollutant under 49 CFR §171.8.

IMDG: Classified as a Marine Pollutant according to IMDG criteria.

Transport in Bulk

no information available

Other Information

DOT requirements specific to Marine Pollutants do not apply to non-bulk packagings transported by motor vehicles, rail cars or aircraft.

15 REGULATORY INFORMATION

Inventory Status

United States (TSCA) All components listed on the inventory or exempt from listing

Canada (DSL) All components listed on the inventory or exempt from listing

USA Federal SARA Title III Rules

Section 302 No components of this material are subject to the reporting requirements of SARA Title III, Section 302.

Section 304 No components of this material are regulated under SARA Title III, Section 304 as extremely hazardous chemicals for emergency release notification ("CERCLA" list).

Section 313 This material does not contain any component(s) listed on the Section 313 Toxic Chemical List.

Section 311/312 Hazards: Acute health hazard

California Proposition 65

WARNING! This product contains a component listed under Proposition 65 – Chemicals Known to the State to Cause Cancer or Reproductive Toxicity.

Massachusetts Right to Know Law

This product contains no component(s) listed in the Massachusetts Substance List for Right to Know Law.

New Jersey Right to Know Program



Safety Data Sheet for SABO[®] STAB UV 79

This SDS complies with the 2012 OSHA HCS and WHMIS 2015.

This product contains no component(s) listed on the 2010 New Jersey Right to Know Hazardous Substance List.

Pennsylvania Right to Know Law

This product contains no component(s) listed on the Pennsylvania Department of Labor and Industry Hazardous Substance List.

16 OTHER INFORMATION

Revision Date

11 June 2015

Reasons for Revision

New version compliant with 2012 OSHA HCS (29 CFR §1910.1200) and WHMIS 2015

Additional Information

Refer to NFPA 654, *Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids*, for safe handling.

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End of SDS