



1 IDENTIFICATION

Product Identifier

Product Name: SABO® STAB UV 62

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 not classified as hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR §1910.1200) or WHMIS 2015 in the form in which it is shipped by the manufacturer, under normal conditions of use, or during foreseeable emergencies.

Hazard(s): Not applicable (N/A)

Signal Word, Hazard Statements, Symbols, & Precautionary Statements

Signal Word: Not applicable (N/A)

Hazard Statement(s): Not applicable (N/A)

Hazard Pictogram(s): Not applicable (N/A)

Precautionary Statements(s): Not applicable (N/A)

Hazards Not Otherwise Classified (HNOC)

Physical HNOC: Not applicable (N/A)

Health HNOC: Not applicable (N/A)

Other Classifications

NFPA



HMIS®

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0



3 COMPOSITION / INFORMATION ON INGREDIENTS

This product contains no component(s) classified as health hazards according to the 2012 OSHA Hazard Communication Standard (29 CFR §1910.1200) or WHMIS 2015.

Non-Hazardous Components

Chemical Name	CAS No.	Wt. %
Butanedioic acid, 1,4-dimethyl ester, polymer with 4-hydroxy-2,2,6,6-tetramethyl-1-piperidineethanol	65447-77-0	~ 100

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 if irritation occurs.
- 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 respiratory irritation occurs.
- 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** May cause minor eye irritation.
- Inhalation** Dust may cause respiratory irritation.
- Skin** May cause minor skin irritation.
- Ingestion** May be harmful if large amounts are swallowed.

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

Notes to Physician: Not applicable (N/A)

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: This product is supplied in a non-dusting form. 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. Dust may also cause respiratory irritation.

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.

This product is supplied in a non-dusting form. Any 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. Dust may also cause respiratory irritation.

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 with adequate ventilation. Do not eat, drink, or use tobacco products while working.

Dry solids 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.

SPECIAL PRECAUTIONS: This product is supplied in a non-dusting form. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. **DO NOT** generate small particles from this product by pulverizing, grinding, or any other means. Dust generated in this manner may form combustible mixtures with air, and is harmful if inhaled. If the particle size of the product must be reduced during handling and/or use, contact SABO for additional information and seek expert advice to mitigate hazards associated with dust generation and accumulation.

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

Butanedioic acid, 1,4-dimethyl ester, polymer with 4-hydroxy-2,2,6,6-tetramethyl-1-piperidineethanol CAS No. 65447-77-0	Not applicable (N/A)
--	----------------------

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 if dusts are present.

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 if dusts are present.

Individual Protective Measures, Such as Personal Protective Equipment

General Hygiene	Do not generate dust. Avoid breathing airborne dust. Avoid contact with eyes and skin. Wash thoroughly after handling and before eating, drinking, or using tobacco products.
Eye/Face Protection	Wear safety glasses with side shields or safety goggles.
Skin Protection	Wear protective gloves impervious to the conditions of use and protective clothing. Recommended materials for protective gloves include PVC, rubber, and other plastics.
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	colorless to light yellowish beads
Odor	odorless
Odor Threshold	no information available
Physical State	solid
pH value	6.3 (1% suspension in water, 20-25°C)
Melting (Softening) Range	50-70°C
Boiling Point	no information available
Flash Point	> 250°C
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	< 1 mg/L
Partition Coefficient (octanol/water)	log P _{OW} = 5.2
Autoignition Temperature	no information available
Decomposition Temperature	> 350°C
Viscosity	not applicable (N/A)

10 STABILITY AND REACTIVITY

Reactivity

Stable 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 hazard, dust may cause respiratory irritation)

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. Dust may form combustible mixtures with air.

11 TOXICOLOGICAL INFORMATION

Signs and Symptoms of Overexposure, Acute and Delayed

Eyes	May cause minor eye irritation.
Inhalation	Dust may cause respiratory irritation.
Skin	May cause minor skin irritation.
Ingestion	May be harmful if large amounts are swallowed.
Target Organ Effects	no information available
Chronic Effects	no information available

Acute Toxicity

Oral	Rat, LD ₅₀ > 5,000 mg/kg (OECD 423)
Inhalation	Rat, LC ₅₀ (4 hr) > 1,100 mg/m ³
Dermal	no information available

Skin Corrosion / Irritation

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

Eye Damage / Irritation

Not classified as an eye irritant based on test results in animals.

Sensitization



Safety Data Sheet for SABO® STAB UV 62

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

Respiratory Sensitization no information available
Skin Sensitization Not classified as a skin sensitizer based on test results in animals.

Germ Cell Mutagenicity

Not classified as mutagenic based on *in vitro* test results.

Carcinogenicity

Not classified as carcinogenic based on test results in animals. 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

Not classified as toxic to reproduction based on test results in animals.

Target Organ Toxicity

Single Exposure no information available
Repeat/Prolonged Exposure Not classified based on test results in animals.

Aspiration Hazard

no information available

12 ECOLOGICAL INFORMATION

Ecotoxicity

Acute toxicity - fish *Danio rerio*, LC₅₀ (96 hr) > 100 mg/L (OECD 203)
Acute toxicity - algae *Scenedesmus subspicatus*, EC₅₀ (72 hr) > 100 mg/L (OECD 201)
Acute toxicity - invertebrates no information available
Acute toxicity - bacteria Activated sludge, EC₅₀ (3 hr) > 100 mg/L (OECD 209)
May cause long lasting harmful effects to aquatic life.

Persistence and Degradability

Not readily biodegradable

Bio-accumulative Potential

Not expected to be bio-accumulative

Mobility in Soil

Not expected to be mobile in soil

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

Not classified as a dangerous good for transport.

UN Proper Shipping Name

Not classified as a dangerous good for transport.

Transport Hazard Class(es)

Not classified as a dangerous good for transport.

Packing Group

Not classified as a dangerous good for transport.

Environmental Hazard(s)

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

IMDG: Not classified as a Marine Pollutant according to IMDG criteria.

Transport in Bulk

no information available

Other Information

Not classified as a hazardous material under US DOT regulations.

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: None known

California Proposition 65

This product contains no component(s) 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

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

28 May 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.

SABO[®] is a registered trademark of SABO S.p.A.

The following supersedes Buyer's Documents. SABO makes no representation or warranty, express or implied, including of merchantability or fitness for a particular purpose. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall SABO be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with the product(s). Buyer's sole remedy and SABO's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled or lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.

End of SDS