

Safety Data Sheet

SABOSTAB® UV 70



SDS according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Safety Data Sheet dated 3/24/2022, version 3

1. IDENTIFICATION

Product identifier

Identification of the substance

Trade name: SABOSTAB® UV 70

CAS number: 52829-07-9

Other means of identification:

Trade code: D0000000000UV70

EC number: 258-207-9

Recommended use of the chemical and restrictions on use

Recommended use:

Industrial uses: Uses of substances as such or in preparations at industrial sites

Manufacture of fine chemicals

Formulation [mixing] of preparations and/or re-packaging

additive for industrial plastic manufacturing

Restrictions on use:

This material is not intended for use in products for which prolonged contact with mucous membranes, body fluids or abraded skin, or implantation within human body, is specifically intended, unless the finished product has been tested in accordance with nationally and internationally applicable safety testing requirements. Because of the wide range of such potential uses, we are not able to recommend this material as safe and effective for such uses and assume no liability for such uses

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company:

SABO SpA

Via Caravaggi

24040 Levate BG

ITALY

Sabo Spa

Tel +39 035 596000

fax +39 035 594400

8.00-18.00

Competent person responsible for the safety data sheet:

sds@sabo.com

Emergency phone number

Sabo Spa

Tel +39 035 596000

fax +39 035 594400

8.00-18.00

address of additional emergency medical services

2. HAZARD(S) IDENTIFICATION

Classification of the chemical

- ⚠ Danger, Eye Dam. 1, Causes serious eye damage.
- ⚠ Warning, Repr. 2, Suspected of damaging fertility.
- ⚠ Warning, Aquatic Acute 1, Very toxic to aquatic life.
- ⚠ Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.
- ⚠ Warning, Comb. Dust, May form combustible dust concentrations in air.

Label elements

Safety Data Sheet

SABOSTAB® UV 70

Hazard pictograms:



Danger

Hazard statements:

- H318 Causes serious eye damage.
- H361f Suspected of damaging fertility.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.
- USH003 May form combustible dust concentrations in air.

Precautionary statements:

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P310 Immediately call a doctor.
- P391 Collect spillage.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Hazards not otherwise classified identified during the classification process:

This product is not combustible in the form in which it is shipped by the manufacturer, but may form a combustible dust through downstream activities (e.g. grinding, pulverizing) that reduce its particle size.

Ingredient(s) with unknown acute toxicity:

None.

Additional classification information

NFPA rating:



HMIS rating:

Safety Data Sheet

SABOSTAB® UV 70

HEALTH	* 2
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Identification of the substance

Chemical characterization: SABOSTAB UV 70

Trade code: D00000000000UV70

Product type and use: Hindered Amine Light Stabilizer (HALS) for plastics

CAS number: 52829-07-9

EC number: 258-207-9

REACH number: 01-2119537297-32-0003

100 % Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate

REACH No.: 01-2119537297-32-0003, CAS: 52829-07-9, EC: 258-207-9

- ⚠ A.3/1 Eye Dam. 1 H318
- ⚠ US-HAE/C2 Aquatic Chronic 2 H411
- ⚠ US-HAE/A1 Aquatic Acute 1 H400

Mixtures

N.A.

4. FIRST-AID MEASURES

Description of necessary measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Indication of immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

Treat according to symptoms(decontamination, vital functions), no known specific antidote.

Safety Data Sheet

SABOSTAB® UV 70

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

CO2 or Dry chemical fire extinguisher.

Water.

Unsuitable extinguishing media:

None in particular.

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.

Hazardous combustion products:

Carbon monoxide

Explosive properties: non explosive

Oxidizing properties: non oxidising

Special protective equipment and precautions for fire-fighters

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

Methods and materials for containment and cleaning up

For containment:

If dusts are present: Remove all sources of ignition and use explosion-proof equipment for cleanup that has been designed for use with combustible dusts.

7. HANDLING AND STORAGE

Precautions for safe handling

See also section 8 for recommended protective equipment.

If there are dusts: do not breathe the vapors or fumes generated during the polymer processing operations and avoid contact with eyes and skin. Use only with adequate ventilation. Do not eat, drink or smoke while working

Advice on general occupational hygiene:

Do not eat or drink while working.

Conditions for safe storage, including any incompatibilities

Dust explosion class: ST class 2 - Kst value between 200 and 300 bar m/sec

Avoid the formation of dust. Avoid electrostatic charges.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

Storage temperature:

Store at ambient temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

No occupational exposure limit available

DNEL Exposure Limit Values

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate - CAS: 52829-07-9

Worker Industry: 1.27 mg/m³ - Consumer: 0.310 mg/m³ - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects

Safety Data Sheet

SABOSTAB® UV 70

Worker Industry: 1.8 mg/kg - Consumer: 0.900 mg/kg - Exposure: Human Dermal -
Frequency: Long Term, systemic effects
Consumer: 0.180 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic
effects

PNEC Exposure Limit Values

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate - CAS: 52829-07-9

Target: Fresh Water - Value: 0.004 mg/l

Target: Marine water - Value: 0.38 µg/L

Target: Freshwater sediments - Value: 5.9 mg/kg

Target: Marine water sediments - Value: 0.59 mg/kg

Target: Microorganisms in sewage treatments - Value: 1 mg/l

Appropriate engineering controls:

None

Individual protection measures

Eye protection:

Eye protection: Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Protection for skin:

Chemical protection clothing.

Protection for hands:

Hand protection:

Chemical resistant protective gloves (EN 374)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6,
corresponding > 480 minutes of permeation time according to EN 374)

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Particle filter with
medium /high

efficiency for solid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Thermal Hazards:

None

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:	Granules,White
Odour:	odolress
Odour threshold:	N.A.
Melting point / freezing point:	81-85°C
Initial boiling point and boiling range:	> 350°C
Solid/gas flammability:	not calssified
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	N.A.
Flash point:	> 150 ° C
Evaporation rate:	N.A.
Vapour pressure:	0.0000013 hPa
Relative density:	1.05 g/cm3 (20°C)
Solubility in water:	18.8mg/L at 23°C
Solubility in oil:	N.A.
Partition coefficient (n-octanol/water):	0.35 (25°C)
Auto-ignition temperature:	NA
Decomposition temperature:	> 350 °C
Viscosity:	N.A.
Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.
Substance Groups relevant properties	N.A.

10. STABILITY AND REACTIVITY

Safety Data Sheet

SABOSTAB® UV 70

Reactivity

no hazardous reactions if stored and handled as indicated

Chemical stability

The product is stable if stored and handles as prescribed/indicate

Possibility of hazardous reactions

No hazardous reaction when stored and handled as prescribe/indicated

Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flames. Avoid electrostatic discharge.

Incompatible materials

None known

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological information of the substance:

SABOSTAB UV 70 - CAS: 52829-07-9

a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

Test: LD50 - Route: Oral - Species: Rat = 3700 mg/kg - Source: Huntingdon 1972

Test: LC50 - Route: Inhalation - Species: Rat = 500 mg/m³ - Duration: 4h - Source: CIBA-GEIGY 1974

Test: LD50 - Route: Skin - Species: Rat > 3000 mg/kg - Source: Ciba-Geigy 1975

b) skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

Test: Skin Irritant - Route: Skin - Species: Rabbit Negative

c) serious eye damage/irritation

The product is classified: Eye Dam. 1 H318

Test: Eye Irritant - Route: Skin - Species: Rabbit Positive

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

Test: Skin Sensitization - Species: Guinea pig Negative

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

Test: Mutagenesis Negative

f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

Test: Carcinogenicity Negative

g) reproductive toxicity

The product is classified: Repr. 2 H361f

Test: NOAEL - Species: Rabbit 60 mg/kg

h) STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Safety Data Sheet

SABOSTAB® UV 70

Substance(s) listed on the NTP report on Carcinogens:

No.

Substance(s) listed on the IARC Monographs:

None.

Substance(s) listed as OSHA Carcinogen(s):

No.

Substance(s) listed as NIOSH Carcinogen(s):

No.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

SABOSTAB UV 70 - CAS: 52829-07-9

The product is classified: Aquatic Acute 1 - H400; Aquatic Chronic 2 - H411

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate - CAS: 52829-07-9

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 4.4 mg/l - Duration h: 96 - Notes: OECD 203

Endpoint: LC50 - Species: Daphnia 8.58 mg/l - Duration h: 48 - Notes: OECD 202

Endpoint: NOEC - Species: Daphnia 4 mg/l - Duration h: 48 - Notes: OECD 203

b) Aquatic chronic toxicity:

Endpoint: EC50 - Species: Daphnia 1.31 mg/l - Notes: 21d OECD 211

Endpoint: NOEC - Species: Daphnia 0.23 mg/l - Notes: 21d OECD 211

e) Plant toxicity:

Endpoint: EC50 - Species: Algae 0.705 mg/l - Duration h: 72 - Notes: OECD 201

Persistence and degradability

SABOSTAB UV 70 - CAS: 52829-07-9

Biodegradability: Non easy degradable - Test: Dissolved organic carbon - %: 24 - Notes: (28 days) (Directive 84/449/EEC, C.5) (aerobic, activated sludge)

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate - CAS: 52829-07-9

Biodegradability: Non easy degradable

Bioaccumulative potential

SABOSTAB UV 70 - CAS: 52829-07-9

Bioaccumulation: Not bioaccumulative

Mobility in soil

SABOSTAB UV 70 - CAS: 52829-07-9

Mobility in soil: Not mobile

Other adverse effects

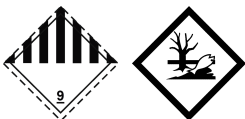
None

13. DISPOSAL CONSIDERATIONS

Waste treatment and disposal methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION



UN number

ADR-UN Number: 3077

IATA-UN Number: 3077

Safety Data Sheet

SABOSTAB® UV 70

IMDG-UN Number:	3077
UN proper shipping name	
ADR-Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains hindered amine derivative)
DOT-Shipping Name: (Contains hindered amine derivative)	
IATA-Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains hindered amine derivative)
IMDG-Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains hindered amine derivative)
Transport hazard class(es)	
ADR-Class:	9
ADR - Hazard identification number:	90
IATA-Class:	9
IATA-Label:	9
IMDG-Class:	9
Packing group	
ADR-Packing Group:	III
IATA-Packing group:	III
IMDG-Packing group:	III
Environmental hazards	
ADR-Environmental Pollutant:	Yes
IMDG-Marine pollutant:	Marine Pollutant
Most important toxic component:	SABOSTAB UV 70
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)	
	N.A.
Special precautions	
ADR-Subsidiary hazards:	-
ADR-S.P.:	274 335 375 601
ADR-Transport category (Tunnel restriction code):	3 (-)
IATA-Passenger Aircraft:	956
IATA-Subsidiary hazards:	-
IATA-Cargo Aircraft:	956
IATA-S.P.:	A97 A158 A179 A197
IATA-ERG:	9L
IMDG-EmS:	F-A , S-F
IMDG-Subsidiary hazards:	-
IMDG-Stowage and handling:	Category A SW23
IMDG-Segregation:	-

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

This substance is listed on the TSCA inventory.

TSCA listed substances:

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate is listed in TSCA Section 8b.

SARA - Superfund Amendments and Reauthorization Act

Section 302 – Extremely Hazardous Substances: No.

Section 304 – Hazardous substances: No.

Section 313 – Toxic chemical list: No.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

No substances listed.

CAA - Clean Air Act

CAA listed substances:

None.

CWA - Clean Water Act

CWA listed substances:

Safety Data Sheet

SABOSTAB® UV 70

None.

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

None.

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

No.

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

No.

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

No.

16. OTHER INFORMATION

Text of phrases referred to under heading 3:

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

Safety Data Sheet dated 3/24/2022, version 3

Sections modified from the previous revision:

1. IDENTIFICATION
3. COMPOSITION/INFORMATION ON INGREDIENTS
5. FIRE-FIGHTING MEASURES
7. HANDLING AND STORAGE
8. EXPOSURE CONTROLS/PERSONAL PROTECTION
9. PHYSICAL AND CHEMICAL PROPERTIES
10. STABILITY AND REACTIVITY
11. TOXICOLOGICAL INFORMATION
12. ECOLOGICAL INFORMATION
- SECTION 14: Transport information
15. REGULATORY INFORMATION

Disclaimer:

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This Safety Data Sheet cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer

Safety Data Sheet

SABOSTAB® UV 70

IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average