



1. Identification of the substance/preparation and of the company/undertaking

Product name STANDOX
HARDENER PASTE BLUE

Product code 000004024669823066

Intended use of the substance/preparation
Dispersion used in coating manufacturing (for professional use)

Company/Undertaking Identification

Producer/Supplier STANDOX GmbH
Street/Box Christbusch 45
Nat.-Code/Postal code/City DE 42285 Wuppertal
Telephone +49 (0)202 2530-0

Information on SDS

Responsible Department Regulatory Affairs
Telephone +49 (0)202 529-2385
Telefax +49 (0)202 529-2804

Emergency Information

Emergency telephone +44 (0)845 600-6640

For further information, please also consult our Internet site:
<http://www.standex.com>

2. Composition/information on ingredients

Chemical characterization

Mixture of synthetic resins, pigments, and solvents as well as water

Hazardous components

Substances presenting a health or environmental hazard within the meaning of the DSD 67/548/EEC incl. 29. ATP

EC-No.	CAS-No.	Chemical Name	Concentration	Classification
201-553-2	84-69-5	Diisobutyl phthalate	55.00 - < 65.00 %	
202-327-6	94-36-0	dibenzoyl peroxide	25.00 - < 35.00 %	R43 Xi; R36 E; R2

Additional advice

To avoid misinterpretation in any case of risk assessment it is not allowed to accumulate the above mentioned percentages. See full text of R-phrases in chapter 16.

3. Hazards identification

The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

Human health hazards

Classification : irritant; sensitizing; oxidising;
May cause fire. Irritating to eyes. May cause sensitization by skin contact.

Special hazard instructions for humans and environment

None known.

4. First aid measures

General advice

When symptoms persist or in all cases of doubt seek medical advice. Never give anything by mouth to an unconscious person.

Inhalation

Avoid breathing dust. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. Move to



fresh air. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.

Skin contact

Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Eye contact

Remove contact lenses. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Seek medical advice.

Ingestion

If swallowed, seek medical advice immediately and show this container or label.

5. Fire-fighting measures

Hazardous combustion products

Fire will produce dense black smoke containing hazardous combustion products (see heading 10). Exposure to decomposition products may be a hazard to health.

Fire and Explosion Hazards

no data available

Suitable extinguishing media

water spray/dry chemical

Extinguishing media which must not be used for safety reasons

High pressure inert gas, e.g. carbon dioxide jet.

Special Protective Equipment and Fire Fighting Procedures

Wear as appropriate: full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. Do not allow run-off from fire fighting to enter drains or water courses.

Additional advice

Cool closed containers exposed to fire with water spray.

6. Accidental release measures

Personal precautions

Keep away from sources of ignition. Air out the room. Do not breathe dust. Comply with safety directives (see chapters 7 and 8).

Environmental precautions

Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up

Contain and collect spillage with a electrically protected vacuum cleaner or by wet brushing and place in container for disposal according to local regulations. Do not use a dry brush as dust clouds or static can be created! Use a suitable vacuum cleaner.

7. Handling and storage

Handling

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is being used. Persons suffering from respiratory problems or allergic responses should not be exposed to, or handle, powder coatings!

Safe handling advice

Precautions should be taken to prevent the formation of dusts in concentrations above flammable, explosive or occupational exposure limits. Operators should wear antistatic footwear and clothing. Keep away from open flames, hot surfaces and sources of ignition. Smoking, eating and drinking should be prohibited in the application area. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. For personal protection see section 8. Comply with the health and safety at work laws. If material is a coating, do not sand, flame cut, braze or weld dry coating without an appropriate respirator or appropriate ventilation, and gloves.

Advice on protection against fire and explosion

Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one. The accumulation of contaminated rags may result in spontaneous combustion. Good housekeeping standards



and regular safe removal of waste materials will minimize the risks of spontaneous combustion and other fire hazards.

Storage

Requirements for storage areas and containers

No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Advice on common storage

8. Exposure controls / personal protection

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is being used.

Additional technical information on the plant

Do not breathe dust. Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain exposure to dusts below the OEL, suitable respiratory protection must be worn.

National occupational exposure limits

CAS-No.	Chemical Name	Source	Time	Type	Value	Note
84-69-5	Diisobutyl phthalate			TWA	5 mg/m ³	
94-36-0	dibenzoyl peroxide			TWA	5 mg/m ³	

Protective equipment

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection

If dust formation exceeds the air concentration limits, then a respiratory protection device approved for this purpose must be worn.

Hand protection

Glove material	Glove thickness	Break through time
nitrile rubber	0.33 mm	> 240 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in chapter 2 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Eye protection

Eye protection (to EN 166/170) designed to protect against exposure to dusts should be worn when there is a likelihood of exposure.

Skin protection

Wear suitable protective clothing. Care should be taken in the selection of protective clothing.

Hygiene measures

Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

Environmental exposure controls

Do not let product enter drains. For ecological information refer to chapter 12.

9. Physical and chemical properties

General information (appearance)

Physical state: solid Colour: blue

Important health, safety and environmental information

	Value	Method
Flash point	> 100 °C	
Autoignition temperature	Not applicable.	DIN 51794
Boiling point/range	Not applicable.	
Lower explosion limit	Not applicable.	
Upper explosion limit	Not applicable.	
Vapour pressure	0.0 hPa	
Relative density	1.14 g/cm ³	DIN 53217/ISO 2811
Water solubility	moderate	
Viscosity (23 °C)	<20 s	ISO 2431-1993 6 mm
Solvent separation test	Not applicable.	ADR/RID
Content of volatile components (including water)	7.5%	Basis Vapour pressure >= 0.01 kPa
pH	Not applicable.	
Conductivity	0 µS/m	

10. Stability and reactivity

Stability

Stable

Conditions to avoid

Stable under recommended storage and handling conditions (see section 7).

Materials to avoid

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, benzoic acid, benzene, diphenyl, phenylbenzoate; for cyclohexanone peroxides, hexane carbonic acid, lauric carbon acid, cyclohexane.

11. Toxicological information

General observations

There are no data available on the product itself. The product is classified and labelled in accordance with EC directives or respective national laws. See sections 2 and 15 for details.

Practical experience

Contains dibenzoyl peroxide. May produce an allergic reaction.

Toxicity Test Type	Value	Time	Species
dibenzoyl peroxide			
Oral LD50	7,710 mg/kg		rat

12. Ecological information

There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Mobility

No information available.

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

Other adverse effects

The preparation was evaluated in accordance with the conventional method of the preparation directive 1999/45/EG and was not classified as environmental dangerous.

13. Disposal considerations

Dispose of in accordance with local regulations.

Product:

Recommendation:

A disposal process that converts the waste into energy is recommended. Can be landfilled or incinerated, when in compliance with local regulations.

Uncleaned packaging:

Recommendation:

Properly emptied containers are to be scrap processed or reconditioned. Improperly emptied containers are considered hazardous waste (waste key number 150110). Waste, including emptied containers, is controlled waste. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. If fully drained containers are compacted they can be regarded as Controlled Waste and disposed of in accordance with the requirements of the Control of Pollution Act 1974 and the Environmental Protection Act 1990 (GB), the Pollution Control and Local Government (NI) Order 1978 (NI) or of the EC (Waste) Regulations 1979 and the EC (Toxic & Dangerous Waste) Regulations 1982 (IRL).

14. Transport information

Transport only in accordance with the requirements of the Carriage of Dangerous Goods by Road and Rail (Classification, Packaging and Labeling), ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

ADR/RID (Land transport)

Proper shipping name: ORGANIC PEROXIDE TYPE E, SOLID

UN-No: 3108
 Hazard Class: 5.2
 Subsidiary Hazard Class: Not applicable.
 Packing group:
 Special Provision:
 Hazchem:

IMDG (Sea transport)

Proper shipping name: ORGANIC PEROXIDE TYPE E, SOLID

UN-No: 3108
 Hazard Class: 5.2
 Subsidiary Hazard Class: Not applicable.
 Packing group:
 Marine Pollutant: N
 EmS: F-J,S-R

ICAO/IATA (Air transport)

Proper shipping name: ORGANIC PEROXIDE TYPE E, SOLID

UN-No: 3108
 Hazard Class: 5.2
 Subsidiary Hazard Class: Not applicable.
 Packing group:

15. Regulatory information

In accordance with the CHIP Regulations 2002 the product is labelled as follows:

Symbol and indicating of hazard

Xi	Irritant
O	Oxidising

**R-phrases(s)**

R7	May cause fire.
R36	Irritating to eyes.
R43	May cause sensitization by skin contact.

S-phrases(s)

S24/25	Avoid contact with skin and eyes.
S37/39	Wear suitable gloves and eye/face protection.
S46	If swallowed, seek medical advice immediately and show this container or label.
S56	Dispose of this material and its container to hazardous or special waste collection point.

National legislation

This safety datasheet has been prepared according to British legislation.

The product is labeled according to the Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 as amended (CHIP Regulations). The risk associated with the use of this product must be assessed in accordance with the Control of Substances Hazardous to Health (COSHH) Regulations and the Dangerous Substances and Explosive Atmospheres Regulations.

16. Other information

Full text of R phrases with no. appearing in section 2

R2	Risk of explosion by shock, friction, fire or other sources of ignition.
R36	Irritating to eyes.
R43	May cause sensitization by skin contact.

Information taken from reference works and the literature.

Substance No.	CAS no: www.cas.org/EO/regsys.html EC no: http://ecb.jrc.it/esis/index.php?PGM=ein
Substances presenting a health or environmental hazard within the meaning of Directive 67/548/EEC.	http://ecb.jrc.it/existing-chemicals/ http://ecb.jrc.it/classification-labelling/ http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB http://www.cdc.gov/niosh/ipcs/icstart.html
Other directives, limitations and prohibitory regulations	Directive 76/769/EC Directive 98/24/EC Directive 90/394/EC Directive 793/93/EC Directive 1999/45/EC Directive 2006/8/EC EUR-LEX: http://europa.eu.int/eur-lex/
Exposure limit for the pure substance	http://osha.europa.eu/OSHA

Training advice

Directive 76/769/EC
Directive 98/24/EC

Further information

The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national



laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.

Report version

Version	Changes
1.0	

Revision Date: 29-Jan-2007