

SAFETY DATA SHEET

HUNTSMAN

Enriching lives through innovation

SOLOPHENYL BORDEAUX 3BLE

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Identification of the substance or mixture

Product name : SOLOPHENYL BORDEAUX 3BLE
Product type : Solid.
Product description : Azo metal complex dye preparation

Use of the substance/mixture

Uses : Textile dye
Supplier : Huntsman International (India) Pvt. Ltd.
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2. HAZARDS IDENTIFICATION

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Not classified.

See Section 11 for more detailed information on health effects and symptoms.

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Risk phrases : This product is not classified according to EU legislation.

Contains :

Additional warning phrases : Safety data sheet available for professional user on request.

SECTION 3: Composition/information on ingredients

Substance/mixture Mixture

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Sodium carbonate	CAS: 497-19-8 EC: 207-838-8	0.1-1	Xi; R36	Eye Irrit. 2, H319	[1]
white mineral oil	CAS: 8042-47-5 EC: 232-455-8	0.1-1	Not classified.	Not classified.	[2]
			See Section 16 for the full text of the R-phrases declared above.	See Section 16 for the full text of the H statements declared above.	

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SECTION 3: Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

4. FIRST AID MEASURES

First-aid measures

- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.
- Notes to physician** : Symptomatic treatment

See Section 11 for more detailed information on health effects and symptoms.

5. FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : No specific fire or explosion hazard.
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
Carbon monoxide
nitrogen oxides
sulfur oxides
phosphorus oxides
metal oxide/oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up**
- Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. HANDLING AND STORAGE

- Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Packaging materials

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
United Kingdom (UK) No exposure limit value known.	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Exposure controls

Occupational exposure controls : Use only with adequate ventilation. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Hygiene measures : Avoid ingestion, inhalation, skin and eye contact. Handle in accordance with good industrial hygiene practice and any legal requirements. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: Respiratory protection, filter P1

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. <1 hours (breakthrough time): butyl or neoprene.

Eye protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance

Physical state : Solid. [powder]

Colour : Red.

Odour : Odourless.

Important health, safety and environmental information

pH : 9.5 to 9.8 [Conc. (% w/w): 2%]

Decomposition temperature : >250°C (>482°F)

Oxidising properties : None.

Density : 0.8 to 0.9 g/cm³ [20°C (68°F)]

Water solubility : 80 g/l 30 deg C

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9. PHYSICAL AND CHEMICAL PROPERTIES

Partition coefficient: n-octanol/water : -10

Dust ignition temperature : 600 °C

10. STABILITY AND REACTIVITY

Chemical stability : The product is stable.

Possibility of hazardous reactions : None

Conditions to avoid : None known.

Materials to avoid : None known.

Hazardous decomposition products : None under normal storage conditions.

11. TOXICOLOGICAL INFORMATION

Toxicokinetics

Absorption : Not available.

Distribution : Not available.

Metabolism : Not available.

Elimination : Not available.

Potential acute health effects

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Eye contact : No known significant effects or critical hazards.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
SOLOPHENYL BORDEAUX 3BLE	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
sodium carbonate	LD50 Oral	Rat	4000 mg/kg	-

Conclusion/Summary : Not available.

Potential chronic health effects

Chronic toxicity

Conclusion/Summary : Not available.

Irritation/Corrosion

Conclusion/Summary

Skin : Non-irritant. OECD 404

Eyes : Non-irritant. OECD 405

Sensitiser

Product/ingredient name	Route of exposure	Species	Result
SOLOPHENYL BORDEAUX 3BLE	skin	Guinea pig	Not sensitizing
sodium carbonate	skin	Guinea pig	Not sensitizing

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

11. TOXICOLOGICAL INFORMATION

Reproductive toxicity

Conclusion/Summary	: Not available.
Chronic effects	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation	: No specific data.
Ingestion	: No specific data.
Skin	: No specific data.
Eyes	: No specific data.

12. ECOLOGICAL INFORMATION

Environmental effects : Not readily biodegradable. This product shows a low bioaccumulation potential.

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
SOLOPHENYL BORDEAUX 3BLE	OECD 202 <i>Daphnia</i> sp. Acute Immobilisation Test	Acute EC50 172 mg/L	Daphnia	48 hours
	OECD 201 Alga, Growth Inhibition Test	Acute EC50 >100 mg/L	Algae	72 hours
	OECD 209 Activated Sludge, Respiration Inhibition Test	Acute IC50 >100 mg/L	Bacteria	3 hours
	OECD 203 Fish, Acute Toxicity Test	Acute LC50 608 mg/L	Fish - Zebra fish (Brachydanio rerio)	96 hours

Conclusion/Summary : Not toxic or harmful to aquatic organisms.

Other ecological information

Biodegradability

Product/ingredient name	Test	Result	Dose	Inoculum
SOLOPHENYL BORDEAUX 3BLE	OECD 301A Ready Biodegradability - DOC Die-Away Test	<10 % - Not readily - 28 days	-	-

Conclusion/Summary : Not readily biodegradable.

BOD5 : 0 mgO₂/g

COD : 730 mgO₂/g

TOC : 29.4 %

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
SOLOPHENYL BORDEAUX 3BLE	-	-	Not readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
SOLOPHENYL BORDEAUX 3BLE	-10	-	low

Other adverse effects : No known significant effects or critical hazards.

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12. ECOLOGICAL INFORMATION

Organohalogen content : 0 %

PBT : Not applicable.

Other information

Phosphorus Content : 3.5 % as phosphate

Nitrogen Content : 8.7 %

Metal Content : 4.5 % Copper as organo-metal complex

13. DISPOSAL CONSIDERATIONS

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

14. TRANSPORT INFORMATION**International transport regulations**

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
ADR/RID Class	Not applicable.		-	-	
ADN Class	Not applicable.		-	-	
IMDG Class	Not applicable.		-	-	
IATA Class	Not applicable.		-	-	

Remarks

PG* : Packing group

15. REGULATORY INFORMATION

Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still required.

EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Product use : Industrial applications.

Other EU regulations

Additional warning phrases : Safety data sheet available for professional user on request.

National regulations**International regulations**

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16. OTHER INFORMATION

Full text of R-phrases referred to in sections 2 and 3 - Europe : R36- Irritating to eyes.

Full text of classifications referred to in sections 2 and 3 - Europe : Xi - Irritant

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification of the substance or mixture : Not classified.

GHS label elements

:

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

History

(M)SDS no. : 00039456

Date of printing : 13. October 2014

Date of issue/ Date of revision : 13. October 2014

Date of previous issue : 05. May 2011

Version : 2

Indicates information that has changed from previously issued version.

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THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

16. OTHER INFORMATION

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Annex
