## SAFETY DATA SHEET



#### SOLOPHENYL® YELLOW GLE

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product name : SOLOPHENYL® YELLOW GLE

Use of the substance/

mixture

: Textile dye

Supplier : Huntsman Textile Effects,

Klybeckstrasse 200, CH 4057 Basel,

Telephone: +41 61 299 11 11

Distributor : Huntsman Advanced Materials (Singapore) Pte Ltd

150 Beach Road, #29-00 Gateway East Singapore 189720

Tel.: +65 6297 3363 Fax: +65 6295 2933

Emergency telephone number (24h/7day)

: Europe: +32 35751234 Americas: +1 703 527 3887 Africa: +32 35751234

Asia & Pacific: +65 6336 6011 China: +86 20 39377888 India: +91 22 40 506 333

India: + 91 22 40 506 333 USA & Canada: 800 424 9300

e-mail address of person responsible for this SDS

: pehs\_te@huntsman.com

### Section 2. Hazards identification

Classification of the : Not classified.

substance or mixture GHS label elements

Signal word : No signal word.

**Hazard statements**: No known significant effects or critical hazards.

**Precautionary statements** 

**Prevention**: No Code(s) - Avoid ingestion, inhalation, skin and eye contact. Handle in

accordance with good industrial hygiene practice and any legal requirements.

Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.
Hazardous ingredients : Not applicable.
Other hazards which do not : None known.

result in classification

### Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[[3-(acetylamino)-4-[(3-sulfophenyl)azo]phenyl]amino]-6-(4-morpholinyl)-1,3,5-triazin-2-yl] amino]-, sodium salt	30 - 60	156738-26-0

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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.

Occupational exposure limits, if available, are listed in Section 8.

#### Section 4. First-aid measures

#### **Description of necessary 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.

#### Most important symptoms/effects, acute and delayed

#### 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.

#### Over-exposure signs/symptoms

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

#### Indication of immediate medical attention and special treatment needed, if necessary

**Specific treatments**: Not available.

Notes to physician : No specific treatment. Treat symptomatically. Call medical doctor or poison control

centre immediately if large quantities have been ingested.

**Protection of first-aiders**: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### **Extinguishing media**

**Suitable**: Use an extinguishing agent suitable for the surrounding fire.

Not suitable : None known.

Specific hazards arising

from the chemical

: No specific fire or explosion hazard.

Hazardous thermal : Decomposition products may include the following materials:

decomposition products sulfur oxides

metal oxide/oxides

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### Section 5. Fire-fighting measures

Special precautions for firefighters

: 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.

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.

Remark : Not available.

### Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures : 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.

**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 and materials for containment and cleaning up

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.

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.

### Section 7. Handling and storage

Precautions for safe handling

: 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. See also Section 8 for additional information on hygiene measures.

Put on appropriate personal protective equipment (see Section 8).

Conditions for safe storage, : including any incompatibilities

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.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

Ingredient name Exposure limits

None.

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 appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

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### Section 8. Exposure controls/personal protection

#### **Appropriate engineering** controls

: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. 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.

#### **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.

#### Individual protection measures

#### **Hygiene measures**

: 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. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Respiratory protection

: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. 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.

Use gloves approved to relevant standards e.g. EN 374 (Europe), F739 (US). Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers. Additional information can be found for instance at www.gisbau.de.

#### 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.

### Section 9. Physical and chemical properties

#### **Appearance**

**Physical state** : Solid. [powder]

Colour : Orange. Odour Odourless. **Odour threshold** : Not available.

pН : 8 to 9 [Conc. (% w/w): 2%]

: >300°C (>572°F) **Melting point** : Not available. **Boiling point** : Not available. Flash point : Not available. **Evaporation rate (butyl** 

acetate = 1)

Flammability (solid, gas) : Not available.

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### Section 9. Physical and chemical properties

Lower and upper explosive

: Not available.

(flammable) limits

: Not available. Vapour pressure : Not available. Vapour density : Not available. Relative density **Solubility** Not available.

> g/l 15

30 deg C

Partition coefficient: n-

octanol/water

: -7

: 295°C (563°F) **Auto-ignition temperature Viscosity** : Not available. : Not available. **Explosive properties Oxidising properties** None.

Other information

**Density** : 0.6 to 0.7 g/cm<sup>3</sup> [20°C (68°F)]

No additional information.

### Section 10. Stability and reactivity

: The product is stable. **Chemical stability** 

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

None

: No specific data. **Conditions to avoid** 

None.

Incompatible materials

: None under normal storage conditions.

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Decomposition products may include the following materials: None

under normal storage conditions.

### Section 11. Toxicological information

#### Information on the likely routes of exposure

: No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. Ingestion **Skin contact** : No known significant effects or critical hazards. **Eye contact** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

: No specific data. Inhalation Ingestion : No specific data. **Skin contact** : No specific data. : No specific data. Eye contact

Delayed and immediate effects and also chronic effects from short and long term exposure

**Acute toxicity** 

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### **Section 11. Toxicological information**

Product/ingredient nameEndpointSpeciesResultExposureBenzenesulfonic acid, 2,2'-LD50 DermalRat>2000 mg/kg-

(1,2-ethenediyl)bis[5-[[4-[[3-

(acetylamino)-4-[

(3-sulfophenyl)azo]phenyl] amino]-6-(4-morpholinyl)-1,3,

5-triazin-2-yl]amino]-,

sodium salt

LD50 Oral Rat >2000 mg/kg - SOLOPHENYL YELLOW LD50 Dermal Rat >2000 mg/kg -

GLE
LD50 Oral Rat >2000 mg/kg -

**Irritation/Corrosion** 

Product/ingredient name Test Species Result

SOLOPHENYL YELLOW OECD 405 Acute Eye Irritation/ Rabbit Eyes - Non-irritant.

GLE Corrosion

OECD 404 Acute Dermal Irritation/ Rabbit Skin - Non-irritant.

Corrosion

**Conclusion/Summary** 

Skin : Non-irritating to the skin.

Eyes : Non-irritating to the eyes.

**Sensitisation** 

Product/ingredient name Test Route of Species Result

exposure

Benzenesulfonic acid, 2,2'- OECD 406 Skin skin Guinea pig Not sensitizing

(1,2-ethenediyl)bis[5-[[4-[[3- Sensitization

(acetylamino)-4-[

(3-sulfophenyl)azo]phenyl] amino]-6-(4-morpholinyl)-1,3,

5-triazin-2-yl]amino]-,

sodium salt

SOLOPHENYL YELLOW OECD 406 Skin skin Guinea pig Not sensitizing

GLE Sensitization

Potential chronic 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.: No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.Mutagenicity : 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.

**Chronic toxicity** 

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### **Section 11. Toxicological information**

Benzenesulfonic acid, 2.2'-OECD 407 Repeated Dose **NOEL** Sub-1000 mg/ 28-day Oral Toxicity Study in (1,2-ethenediyl)bis[5-[[4-[[3acute kg (acetylamino)-4-[ Rodents **NOEL** (3-sulfophenyl)azo]phenyl] Oral amino]-6-(4-morpholinyl)-1,3, 5-triazin-2-yl]amino]-, sodium salt SOLOPHENYL YELLOW OECD 407 Repeated Dose **NOEL** 1000 ma/ Sub-GLE 28-day Oral Toxicity Study in acute Rodents NOEL Oral

### Section 12. Ecological information

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

Aquatic and terrestrial toxicity

Product/ingredient name **Endpoint Exposure Species** Result Benzenesulfonic acid, 2,2'-(1, OECD 202 Daphnia sp. Acute EC0 48 hours Daphnia 222.2 mg/l 2-ethenediyl)bis[5-[[4-[[3-Immobilisation Test (acetylamino)-4-[ (3-sulfophenyl)azo]phenyl] amino]-6-(4-morpholinyl)-1,3, 5-triazin-2-yl]amino]-, sodium salt OECD 201 Alga, Growth EC50 72 hours Algae >100 mg/l Inhibition Test OECD 202 Daphnia sp. Acute EC50 48 hours Daphnia >222.2

mg/l Immobilisation Test IC0 Bacteria OECD 209 Activated Sludge, 3 hours >100 mg/l **Respiration Inhibition Test** OECD 209 Activated Sludge. IC100 3 hours **Bacteria** >320 mg/l Respiration Inhibition Test OECD 209 Activated Sludge, IC50 3 hours Bacteria >320 mg/l **Respiration Inhibition Test** OECD 203 Fish, Acute LC0 96 hours Fish 236 mg/l **Toxicity Test** OECD 203 Fish, Acute LC100 96 hours Fish >236 mg/l **Toxicity Test** OECD 203 Fish, Acute LC50 96 hours Fish >236 mg/l **Toxicity Test** OECD 202 Daphnia sp. Acute NOEC 48 hours Daphnia 222.2 mg/l Immobilisation Test OECD 201 Alga, Growth EC50 72 hours Algae >100 mg/l Inhibition Test OECD 202 Daphnia sp. Acute EC50 48 hours Daphnia >100 mg/l Immobilisation Test OECD 209 Activated Sludge, IC50 3 hours **Bacteria** >320 mg/l Respiration Inhibition Test

SOLOPHENYL YELLOW **GLE** 

OECD 203 Fish, Acute LC50 96 hours Fish >236 mg/l **Toxicity Test** 

**Conclusion/Summary** 

**Biodegradability** 

Product/ingredient name **Period** Result **Test** 

: Not toxic or harmful to aquatic organisms.

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### **Section 12. Ecological information**

SOLOPHENYL YELLOW

**GLE** 

OECD 302B Inherent Biodegradability: Zahn-

Wellens/EMPA Test

OECD 301A Ready Biodegradability - DOC Die-28 days <10 %

**BCF** 

28 days

Away Test

Conclusion/Summary

: Partially eliminated by adsorption onto effluent treatment sludge.

**Aquatic half-life Photolysis** 

SOLOPHENYL YELLOW GLE

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**Biodegradability** Not readily

**Potential** 

low

low

26 %

**Bioaccumulative potential** 

Product/ingredient name

Product/ingredient name

SOLOPHENYL YELLOW GLE Benzenesulfonic acid, 2,2'-(1,

2-ethenediyl)bis[5-[[4-[[3-

(acetylamino)-4-[(3-sulfophenyl)azo] phenyl]amino]-6-(4-morpholinyl)-1,3, 5-triazin-2-yl]amino]-, sodium salt

: Not available. **Mobility** 

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

BOD5 mgO2/g COD 715 mgO2/g

% Organohalogen content : 0 **Phosphorus Content** : 0 % **Nitrogen Content** 9.7

**Metal Content** 

: Metal content under the ETAD recommended limits.

### Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimised wherever possible. 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. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### **Section 14. Transport information**

International transport regulations

14.1 UN number 14.2 UN proper shipping name

ADR/RID Not regulated. Not regulated. IMDG **IATA** Not regulated.

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# Section 14. Transport information

	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards	14.6 Special precautions for user	Additional information
ADR/RID	-	-	No.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	-
IMDG	-	-	No.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	-
IATA	-	-	No.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	-

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable.

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### Section 15. Regulatory information

Signal word : No signal word.

**Hazard statements**: No known significant effects or critical hazards.

**Precautionary statements** 

Prevention : Avoid ingestion, inhalation, skin and eye contact. Handle in accordance with good

industrial hygiene practice and any legal requirements.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

#### Additional information: 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.

-

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

### Section 16. Other information

#### **History**

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Date of previous issue : No previous validation

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Further information :

#### **Notice to reader**

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IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

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.

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