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MATERIAL SAFETY DATA SHEET

SOLVENT YELLOW - 43

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

- **1.1 Product identifier**
- **Trade name: Solvent Yellow 43**
- **CAS Number:**
19125-99-6
- **EC number:**
242-828-7
- **Registration number 01-2120115891-59-0000**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- **Application of the substance / the mixture**
Suitable for surface coatings lacquers, resin based pigments for coatings and paints, waxes, candles and fuels.
Fluorescent tracer for engineering fluids and leak detector for refrigerants

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Aquatic Acute 1 H400 Very toxic to aquatic life.
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The substance is classified and labelled according to the CLP regulation.

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· **Hazard pictograms**

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- **Signal word** *Warning*
- **Hazard statements**
 - H410 Very toxic to aquatic life with long lasting effects.*
- **Precautionary statements**
 - P273 Avoid release to the environment.*
 - P391 Collect spillage.*
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not a PBT substance.*
- **vPvB:** *The substance is not vPvB*

SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterisation: Substances**
- **CAS No. Description**
 - CAS: 19125-99-6*
 - Substance Name: 2-butyl-6-(butylamino)-1H-benz[de]isoquinoline-1,3(2H)-dione*
- **Identification number(s)**
- **EC number:** *242-828-7*
- **Additional information:**
 - Chemical Formula: C₂₀H₂₄N₂O₂*
 - Molecular weight: 324.42 g/mol*
- **SVHC** *The substance is not in the list of SVHC substances*

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**
 - Immediately remove any clothing soiled by the product.*
 - Consult a physician. Show this safety data sheet to the doctor in attendance.*
 - Seek medical assistance if case of discomfort.*

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· **After inhalation:**

Get medical attention if symptoms occur.

Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical aid

· **After skin contact:**

In case of contact with skin, clean with soap and water.

Remove contaminated clothing.

Get medical attention if irritation develops or persists.

· **After eye contact:**

Remove contact lenses if present and easy to do.

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

If symptoms persist, consult doctor.

· **After swallowing:**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

· **Information for doctor:** Treat symptomatically and supportively.

· **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

Water fog/fine spray, dry chemical, alcohol-resistant foam, carbon dioxide

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Sulphur dioxide (SO₂)

Carbon dioxide (CO₂)

Carbon monoxide (CO)

· **5.3 Advice for firefighters**

· **Protective equipment:**

Wear fully protective suit.

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Avoid formation of dust.

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Avoid breathing vapour or mist.

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Ensure adequate ventilation

Wear protective equipment. Keep unprotected person away.

· **6.2 Environmental precautions:**

Do not discharge into drains, surface water, groundwater or soil

In case of seepage into the ground inform responsible authorities.

· **6.3 Methods and material for containment and cleaning up:**

Sweep up, shovel up or vacuum up (consider explosion-proof machines designed to be grounded during storage and use).

· **6.4 Reference to other sections**

See Section 13 for disposal information.

See Section 8 for information on personal protection equipment.

See Section 7 for information on safe handling.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Avoid dust generation.

Avoid contact with eyes, skin and clothing.

Ensure good ventilation/exhaustion at the workplace.

· **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in ambient temperature and dry place. Keep container close while not in use and well-ventilated area away from incompatible substances.

· **Information about storage in one common storage facility:**

Keep away from oxidizing agents i.e. nitrates, oxidizing acids, chlorine bleaches.

· **Further information about storage conditions:**

Keep container tightly sealed.

Keep away from sources of ignition.

· **7.3 Specific end use(s)**

Suitable for surface coatings lacquers, resin based pigments for coatings and paints, waxes, candles and fuels.

Fluorescent tracer for engineering fluids and leak detector for refrigerants

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Facilities storing or utilizing this material should be equipped with

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an eyewash fountain. Use adequate general and local exhaust ventilation to keep airborne concentrations low.

· **Ingredients with limit values that require monitoring at the workplace:** Not required.

· **8.2 Exposure controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

· **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.



Protective gloves

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

Appearance:

· **Form:** Powder

· **Colour:** Yellow

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· Odour:	<i>no data available</i>
· Change in condition Melting point/freezing point:	<i>124 - 130°C</i>
· Flash point:	<i>Not Determined</i>
· Flammability (solid, gas):	<i>Product is not flammable.</i>
· Auto-ignition temperature:	<i>Product is not selfigniting.</i>
· Explosive properties:	<i>Product does not present an explosion hazard.</i>
· Vapour pressure at 25 °C:	<i>Not Determined</i>
· Density at 20 °C:	<i>Taping Bulk Density- 0.30 – 0.50 g/cc</i>
· Solubility in / Miscibility with water at 28 °C:	<i>Insoluble</i>
· Partition coefficient: n-octanol/water at 25 °C:	<i>Not Determined</i>
· Viscosity: Dynamic:	<i>Not applicable.</i>

SECTION 10: Stability and reactivity

- **10.1 Reactivity** *Stable at ambient temperature and under normal conditions of use.*
- **10.2 Chemical stability** *Stable at ambient temperature and under normal conditions of use.*
- **10.3 Possibility of hazardous reactions**
No hazardous reactions are foreseeable in normal conditions of use and storage.
- **10.4 Conditions to avoid**
Keep away from heat, sparks and flame.

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Avoid formation of dust.

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Avoid contact with incompatible materials.

· **10.5 Incompatible materials:**

Oxidizing agents i.e. nitrates, oxidizing acids, chlorine bleaches

· **10.6 Hazardous decomposition products:**

Carbon monoxide (CO), carbon dioxide (CO₂), sulfur oxides (SO_x), other pyrolysis products typical of burning organic material.

SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**

· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

No data available.

· **Primary irritant effect:**

· **Skin corrosion/irritation** Test chemical was reported to be not irritating to skin.

· **Serious eye damage/irritation** Test chemical was reported to be not irritating to eyes.

· **Respiratory or skin sensitisation** Test chemical was reported to be not sensitising.

· **Additional toxicological information:**

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

· **Germ cell mutagenicity** Test chemical was reported to be non-mutagenic.

· **Carcinogenicity** No data available

· **Reproductive toxicity** Test chemical was reported to be non-reprotoxic.

· **STOT-single exposure** No data available

· **STOT-repeated exposure** Based on available data, the classification criteria are not met.

· **Aspiration hazard** No data available

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

48 hr EC50	0.17 mg/l (Daphnia Magna (Water Flea)) (OECD TG 202)
72 hr EC50	381.3 mg/L (Desmodesmus subspicatus) (OECD TG 201)
96 hr LC50	172.247 mg/l (Danio rerio)

· **12.2 Persistence and degradability** Not readily biodegradable

· **12.3 Bioaccumulative potential** The substance is non-bioaccumulative.

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· **12.4 Mobility in soil**

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The Adsorption Coefficient of test substance 2-butyl-6-(butylamino)-1H-benz[de]isoquinoline-1,3(2H)-dione (CAS No.19125-99-6) was determined as per the HPLC method (OECD Guideline-121). The Log Koc value was found to be 4.271 ± 0.049 at 25°C.

· **Additional ecological information:**

· **General notes:** Not hazardous for water.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** The substance is not PBT.

· **vPvB:** Not a vPvB substance.

· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Must be specially treated adhering to official regulations.

Prevent contamination of soil, ground and surface water.

· **Recommendation**

Dispose off waste material according to local, state and federal regulations.

· **Waste disposal key:**

Dispose of as unused product.

Waste must be disposed of in accordance with federal, state and local environmental control regulations

· **Uncleaned packaging:**

· **Recommendation:** Dispose off according to Federal, State and Local Regulations.

SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, IMDG, IATA**

UN3077


· **14.2 UN proper shipping name**

· **ADR**

3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2-butyl-6-(butylamino)-1H-benz[de]isoquinoline-1,3(2H)-dione)

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· IMDG	<i>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2-butyl-6-(butylamino)-1H-benz[de]isoquinoline-1,3(2H)-dione), MARINE POLLUTANT</i>
· IATA	<i>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2-butyl-6-(butylamino)-1H-benz[de]isoquinoline-1,3(2H)-dione)</i>
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
	
· Class	<i>9 Miscellaneous dangerous substances and articles.</i>
· Label	<i>9</i>
· 14.4 Packing group	
· ADR, IMDG, IATA	<i>III</i>
· 14.5 Environmental hazards:	
· Marine pollutant:	<i>No</i>
· Special marking (ADR):	<i>Symbol (fish and tree)</i>
· Special marking (IATA):	<i>Symbol (fish and tree)</i>
· 14.6 Special precautions for user	<i>Warning: Miscellaneous dangerous substances and articles.</i>
· Hazard identification number (Kemler code):	<i>90</i>
· EMS Number:	<i>F-A,S-F</i>
· Stowage Category	<i>A</i>
· Stowage Code	<i>SW23 When transported in BK3 bulk container, see 7.6 2.12 and 7.7.3.9.</i>
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	<i>Not applicable.</i>
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	<i>5 kg</i>
· Excepted quantities (EQ)	<i>Code: E1</i>
	<i>Maximum net quantity per inner packaging:</i>

30 g

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- **Transport category**
- **Tunnel restriction code**

Maximum net quantity per outer packaging:
1000 g

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- **IMDG**
- **Limited quantities (LQ)**
- **Excepted quantities (EQ)**

5 kg

Code: E1

Maximum net quantity per inner packaging:
30 g

Maximum net quantity per outer packaging:
1000 g

- **UN "Model Regulation":**

UN 3077 ENVIRONMENTALLY
HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(2-BUTYL-6-(BUTYLAMINO)-1H-BENZ[DE]
ISOQUINOLINE-1,3(2H)-DIONE), 9, III

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**
The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS09

- **Signal word** Warning
- **Hazard statements**
H410 Very toxic to aquatic life with long lasting effects.
- **Precautionary statements**
P273 Avoid release to the environment.
P391 Collect spillage.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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· **National regulations:**

· **Other regulations, limitations and prohibitive regulations**

International inventory listing

TSCA: Listed

DSL: Listed

ENCS: Listed

KECL: Listed

AICS: Listed

PICCS: Listed

IECSC: Listed

· **Substances of very high concern (SVHC) according to REACH, Article 57**

The substance is not listed as SVHC.

· **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Product safety department.

Contact: Mr. Vijay Mehra

· **Email: veetohobbies@hotmail.com**

· **Mob: 7027002328/29/75**

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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· **Sources**

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REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

ECHA

Toxplanet

· * **Data compared to the previous version altered.**

- *Section 1: Identification of the substance/mixture and of the company/undertaking*
- *Section 2: Hazard Identification*
- *Section 3: Composition/information on ingredients*
- *Section 4: First-aid measures.*
- *Section 5: Fire-fighting measures*
- *Section 6: Accidental Release measures*
- *Section 7: Handling and storage.*
- *Section 8: Exposure Controls/Personal protection.*
- *Section 9: Physical and Chemical properties.*
- *Section 10: Stability and Reactivity*
- *Section 11: Toxicological Information.*
- *Section 12: Ecological Information.*
- *Section 13: Disposal consideration*
- *Section 14: Transport information*
- *Section 15: Regulatory information*
- *Section 16: Other information*

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