

Safety Data Sheet

Issue Date: 25-Feb-2016

Revision Date: 25-Feb-2016

573062 REV A

1. IDENTIFICATION

Product Identifier

Product Name Multi-purpose 4-in-1 Dye

Other means of identification

SDS # 573062

Product Code 16244, 16245

Recommended use of the chemical and restrictions on use

Synonyms N/A

Supplier's details

Recommended Use Restricted to professional users. Automotive/Vehicle/HVAC Related.

Uses advised against No information available

Details of the supplier of the safety data sheet

Bright Solutions International, LLC
1738 Maplelawn Dr.
Troy, MI 48084 USA

Emergency Telephone Number

USA 1-800-255-3924
China (400-1)-400-120-0751
Other Collect 1-813-248-0585

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Flammable Liquids	Category 4

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word Warning		
Hazard Statements H332 - Harmful if inhaled combustible liquid		
		
Appearance Dark Red liquid	Physical State Liquid	Odor Oily

Precautionary Statements

P311 - Call a POISON CENTER or doctor/physician

P321 - Specific treatment (see supplemental first aid instructions on this label)
 P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
 P271 - Use only outdoors or in a well-ventilated area
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 P312 - Call a POISON CENTER or doctor if you feel unwell
 P201 - Obtain special instructions before use
 P202 - Do not handle until all safety precautions have been read and understood
 P281 - Use personal protective equipment as required
 P308 + P313 - IF exposed or concerned: Get medical advice/attention
 P405 - Store locked up
 P501 - Dispose of contents/ container to an approved waste disposal plant
 P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish
 P403 + P235 - Store in a well-ventilated place. Keep cool
 P501 - Dispose of contents/ container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other information

May be harmful in contact with skin

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No	Weight %	Trade Secret
Proprietary	Proprietary	50-60	*

4. FIRST-AID MEASURES

First aid measures for different exposure routes

General advice	If symptoms persist , call a physician
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Skin Contact	Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Inhalation	Immediate medical attention is not required. If symptoms persist, call a physician. Move to fresh air in case of accidental inhalation of vapors or decomposition products.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Consult a physician. Do NOT induce vomiting.

Protection of First-aiders	Use personal protective equipment.
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Most important symptoms/effects, acute and delayed

Main Symptoms	No information available.
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Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**Use: Dry chemical. Carbon dioxide. (CO₂). Water spray. Alcohol-resistant foam.

Unsuitable Extinguishing Media Keep away from heat and sources of ignition.

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition. Risk of ignition.

Explosion data**Sensitivity to Mechanical Impact** none**Sensitivity to Static Discharge** yes**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal Precautions	Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.
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Environmental Precautions	Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
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Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
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Methods for Clean-Up	Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers. Take precautionary measures against static discharges.
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7. HANDLING AND STORAGE**Precautions for safe handling**

Advice on Safe Handling	Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Do not use mobile phones during handling. Never pierce, drill, grind, cut, saw or weld any empty container.
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Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions	Keep away from heat and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in properly labeled containers.
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Incompatible products

Oxidizing agents. Acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Exposure Guidelines**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Proprietary	-	-	No information available
Proprietary	-	-	No information available

Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Exposure controls

Engineering Measures Showers
Eyewash stations
Ventilation systems. Apply technical measures to comply with the occupational exposure limits. Process enclosure and/or ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tightly fitting safety goggles. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substances; this is irrespective of the recommendation involving the wearing of eye protection. If splashes are likely to occur, wear: Face-shield. Goggles.

Skin and Body Protection Skin and body protection. Wear protective gloves and protective clothing. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene measures When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Oily
Appearance	Dark red liquid	Odor Threshold	No information available
Color	N/A		
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	
pH	No information available		
Melting Point		N/A	
Boiling Point/Boiling Range	149 °C / 300 °F		
Flash Point	85 °C / 185 °F		
Evaporation Rate	No data available		
Flammability (Solid, Gas)	No data available	No data available	
Flammability Limits in Air			
Upper Flammability Limits	No information available		
Lower Flammability Limit	No information available		
Vapor Pressure	0.04		
Vapor Density	5		
Specific Gravity	0.89	N/A	
Solubility in other solvents	No information available		
Partition Coefficient: n-octanol/water	No information available		
Auto-ignition Temperature	No data available	N/A	
Decomposition Temperature	No information available		
Kinematic Viscosity	No data available		
Dynamic Viscosity	No information available		
Explosive Properties	No information available		
Oxidizing Properties	No information available		
<u>Other information</u>			
Softening point	No information available		

Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Heat, flames and sparks.

Incompatible Materials

Oxidizing agents. Acids.

Hazardous Decomposition Products

May emit toxic fumes under fire conditions.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact	Avoid contact with eyes.
Skin Contact	May be harmful in contact with skin.
Inhalation	Toxic by inhalation.
Ingestion	Not an expected route of exposure. Do not taste or swallow.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Proprietary	No data available	No data available	No data available
Proprietary	No data available	No data available	No data available

Information on toxicological effects

Symptoms	No information available
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No information available
Germ cell mutagenicity	No information available
Carcinogenicity	There are no known carcinogenic chemicals in this product.
ACGIH: (American Conference of Governmental Industrial Hygienists)	
<i>A2 - Suspected Human Carcinogen</i>	
IARC: (International Agency for Research on Cancer)	
<i>Group 1 - Carcinogenic to Humans</i>	
OSHA: (Occupational Safety & Health Administration)	
<i>X - Present</i>	
Reproductive toxicity	No information available

Specific target organ systemic toxicity (single exposure)	No information available
Specific target organ systemic toxicity (repeated exposure)	No information available
Aspiration hazard	No information available

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral)	8333 mg/kg
ATEmix (dermal)	3333 mg/kg
ATEmix (inhalation-gas)	1167 mg/l
ATEmix (inhalation-dust/mist)	3.6 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

40% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to Microorganisms	Toxicity to daphnia and other aquatic invertebrates
Proprietary		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50

Persistence/Degradability

No information available

Bioaccumulation

No information available

Other Adverse Effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste Treatment

Waste Disposal Methods	Should not be released into the environment. Dispose of in accordance with local regulations. This material, as supplied, is not a hazardous waste according to state and federal regulations (40 CFR 261).
Contaminated Packaging	Do not re-use empty containers. Dispose of in accordance and local regulations.

14. TRANSPORT INFORMATION

DOT

Description Not regulated

MEX

IATA

Description Not regulated

IMDG

Description Not regulated

RID

ADN**15. REGULATORY INFORMATION****International Inventories**

TSCA	Listed
EINECS/ELINCS	Listed
DSL	Listed
NDSL	Not determined
PICCS	Listed
ENCS	Not determined
IECSC	Listed
AICS	Listed
KECL	Not determined
NZIoC	Not determined

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

REACH registration number Keystone has taken all relative steps to ensure REACH-Compliance. Please contact us with any REACH-Related questions at reach@keystone-europe.co.uk

RESTRICTIONS - REACH TITLE VIII No information available

US Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes

Sudden release of pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Proprietary				X	

Internal Regulations

Mexico - Grade Slight risk, Grade 1.

Canada**WHMIS Note**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

B3 Combustible liquid



<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	1	2	0	H

16. OTHER INFORMATION

Issue Date: 25-Feb-2016
Revision Date:
Revision Note: No information available
Restrictions on use: No information available

Contact Information Website: WWW.BRIGHTSOL.COM.

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet