



SAFETY DATA SHEET

Keda Dye LLC
PO Box 1776
Manitowoc, WI 54221

Issuing Date 08-Aug-2014

Revision date 08-Aug-2014

Version 13

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

Product identifier Keda Dye ROYAL BLUE

Recommended use of the chemical and restrictions on use

Synonyms N/A

Supplier's details

Recommended Use Restricted to professional users. Coloring agent.
Uses advised against No information available

Details of the supplier of the safety data sheet

Keda Dye LLC
PO Box 1776
Manitowoc, WI 54221

Emergency telephone number USA: 1-800-255-3924

2. HAZARDS IDENTIFICATION

Classification

Serious eye damage/eye irritation Category 2
Flammable Liquids Category 4

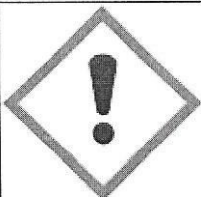
GHS Label elements, including precautionary statements

Emergency Overview

Signal Word
Warning

Hazard Statements
H319 - Causes serious eye irritation
Combustible liquid

Appearance blue liquid Physical state liquid Odor butyl-like odor



Precautionary Statements

P264 - Wash face, hands and any exposed skin thoroughly after handling

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

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 industrial incineration plant

Hazards not otherwise classified**(H)NOC| Other information**

May be harmful in contact with skin

Harmful to aquatic life with long lasting effects

Harmful to aquatic life

Unknown acute toxicity

13 percent of the mixture consists of ingredient(s) of unknown acute toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No	Weight %	Trade Secret
GLYCOL ETHER DB	112-34-5	50-60	*
PROPYLENE GLYCOL IND	57-55-6	20-30	*

4. FIRST AID MEASURES**First aid measures for different exposure routes**

General advice	If symptoms persist, call a physician.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. 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.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Inhalation	Move to fresh air. If symptoms persist, call a physician. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. Move to fresh air in case of accidental inhalation of vapors or decomposition products.
Ingestion	Immediate medical attention is not required. Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.
Protection of First-aiders	Use personal protective
equipment.	<u>Most important symptom effects acute and delayed</u>
Main Symptoms	No information available.
Indication of immediate medical attention and special treatment needed, if necessary	
Notes to Physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use: Dry chemical. Carbon dioxide. (CO₂). Water spray. Alcohol-resistant foam.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

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

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. Avoid contact with the skin and the eyes. 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

Environmental precautions	Prevent entry into waterways, sewers, basements or confined areas. 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 materials for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water. Prevent product from entering drains. Dam up. Take precautionary measures against static discharges.

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 container tightly closed. Keep out of the reach of children. Keep containers tightly closed in a cool well-ventilated place. Keep away from heat and sources of ignition. Keep in properly labeled containers. Keep away from heat.
Incompatible products	None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Keda Dye LLC ROYALBLUE
Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
GLYCOL ETHER DB 112-34-5	20 PPM 8 Hr TWA	50 PPM 8 Hr TWA	No information available

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. Face-shield. 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 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. Remove and wash contaminated clothing before re-use. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Physical state	Liquid		
Appearance	Blue liquid	Odor	butyl-like odor
Odor Threshold	No information available		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	6 - 10	
Melting point		N/A
Boiling point/boiling range	< 110 °C / 230.00 °F	
flash point	> 68 °C / - 155.00 °F	
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	No data available
Flammability Limits in Air		
Upper flammability limit	No information available	
Lower flammability limit	No information available	
Vapor Pressure	No information available	
vapor density	No information available	

Specific gravity	1.02	N/A
Solubility in other solvents	No information available	
Partition coefficient: n-octanol/water available	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	

Other information

Softening point	No information available
molecular weight	
VOC Content (%)	62.88
Weight per Gallon (lbs)	8.52
Density	No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Hazardous Reactions

None under normal processing

Conditions to Avoid

Heat, flames and sparks. Take precautionary measures against static discharges. Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

May emit toxic fumes under fire conditions.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	Avoid breathing vapors or mists.
Eye contact	Severely irritating to eyes.
Skin contact	May be harmful in contact with skin.
Ingestion	Not an expected route of exposure. Do not taste or swallow.

Chemical name	LD50 Oral	LOSO Dermal	LC50 Inhalation
GLYCOL ETHER DB 112-34-5	3384 mg/kg (Rat)	2700 mg/kg (Rabbit)	no data available
PROPYLENE GLYCOL IND 57-55-6	20000 mg/kg (Rat)	20800 mg/kg (Rabbit)	no data available

Information on toxicological effects

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation	Irritating to eyes.
Sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
Specific target organ systemic toxicity (single exposure)	No information available.
Specific target organ systemic toxicity (repeated exposure)	Avoid repeated exposure.
chronic toxicity	No information available.
Aspiration hazard	

Numerical measures of toxicity - Product Information

Unknown acute toxicity 13 percent of the mixture consists of ingredient(s) of unknown acute toxicity

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

ATEmix (oral)	5581 mg/kg
ATEmix (dermal)	4512 mg/kg
ATEmix (inhalation-gas)	700
ATEmix (inhalation-dust)	2213.7
ATEmix (inhalation-vapor)	55

12. ECOLOGICAL INFORMATION**Ecotoxicity**

13% of the mixture consists of components(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
GLYCOL ETHER DB 112-34-5	100: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50	1300: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static		2850: 24 h <i>Daphnia magna</i> mg/L EC50 100: 48 h <i>Daphnia magna</i> mg/L EC50
PROPYLENE GLYCOL IND 57-55-6	19000: 96 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50	51600: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 41-47 : 96 h <i>Oncorhynchus mykiss</i> mL/L LC50 static 51400: 96 h <i>Pimephales promelas</i> mg/L LC50 static 710: 96 h <i>Pimephales promelas</i> mg/L LC50		10000: 24 h <i>Daphnia magna</i> mg/L EC50 1000: 48 h <i>Daphnia magna</i> mg/L EC50 Static

Persistence and 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. This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261). Dispose of in accordance with all applicable national environmental laws and regulations. Dispose of in accordance with local regulations.

Contaminated packaging Do not re-use empty containers. Dispose of in accordance with local regulations.

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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical name	SARA 313 - Threshold Values %
GLYCOL ETHER DB	1.0

SARA 311/312 Hazard

<u>Categories</u> Acute Health	Yes.
Hazard	No.
Chronic Health Hazard	No.
Fire Hazard	No.
Sudden release of pressure hazard	No.
Reactive Hazard	

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

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
GLYCOLETHERDB		X	X	X	
PROPYLENE GLYCOL IND		X	X		

International Regulations

Mexico - Grade Moderate risk, Grade 2. 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



HMIS Health Hazard 2 Flammability 2 Physical Hazard 0 Personal Protection H

14. OTHER INFORMATION

Revision date	08-Aug-2014
Revision Note	No information available.
Restrictions on use	No information available.

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 Material Safety Data Sheet
