



KEDA DYE

SAFETY DATA SHEET

Keda Dye LLC
 PO Box 1776
 Manitowoc, WI 54221

Issuing Date 15-Aug-2014

Revision date 15-Aug-2014

Version 13

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

Product identifier Keda Dye Crimson Red

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

Specific target organ toxicity (single exposure)	Category 3
Flammable Liquids	Category 4

GHS Label elements, including precautionary statements

Emergency Overview

<p>Signal Word Warning</p> <p>Hazard Statements H336 - May cause drowsiness or dizziness Combustible liquid</p>	
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Appearance dark red

Physical state liquid

Odor No information

Precautionary Statements

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

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

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 IN SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P370 + P378 - In case of re: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

P403 + P235 - Store in a well-ventilated place. Keep cool

P501 - Dispose of content /container to industrial incineration plant

Hazards not otherwise classified HNOC

Other information Unknown acute toxicity

68 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 ETHEL PM ALCOHOL	107-98-2	20-30	*
Chromium Compound	Proprietary	20-30	*
PROPYLENE GLYCOL IND	57-55-6	10-20	*

4. FIRST AID MEASURES

First aid measures for different exposure routes

General advice	Immediate medical attention is required. Show this material safety data sheet to the doctor in attendance. 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	Wash off immediately with plenty of water. 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	Remove all sources of ignition. Use personal protective equipment.

Incompatible products None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines:

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
GLYCOL ETHER PM ALCOHOL 107-98-2	100 PPM TWA 369 mg/ml 150 PPM STEL	Not Established	TWA: 100 ppm TWA: 360 mg/m ³ STEL: 150 ppm STEL: 540 mg/m ³
Chromium Compound	Not Established	Not Established	DLH: 25 mg/m³ Cr(III) TWA: 0.5 mg/m ³ Cr

N/OSH IDLH Immediately Dangerous to Life or Health

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

Physical and chemical properties

Physical state	Liquid	Odor	No information available
Appearance	Dark red liquid		
Odor Threshold	No information available		
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	
pH	6 - 10	N/A	
Melting point			
Boiling point/boiling range	< 110 °C / 230 .00 °F		
flash point	> 67 °C / 153.00 °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	1.08	N/A
Solubility in other solvents	No information available	
Partition coefficient: n-octanol/water	No information avail	
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 (%)	No information available
Weight per Gallon (lbs)	9.0
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.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

May emit toxic fumes under fire conditions. Chromium (III) Compounds.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	Avoid breathing vapors or mists. May cause drowsiness or dizziness.
Eye contact	Avoid contact with eyes.
Skin contact	Avoid contact with skin.
Ingestion	Not an expected route of exposure. Do not taste or swallow.

Chemical name	LOSO Oral	LOSO Dermal	LCSO Inhalation
GLYCOL ETHER PM ALCOHOL 107-98-2	5200 mg/kg (Rat)	13000 mg/kg (Rabbit)	54.6 mg/L (Rat) 4 h 24 mg/L (Ra) 1h
PROPYLENE GLYCOL IND 57-55-6	20000 mg/kg (Rat)	20800 mg/kg (Rabbit)	no data available

Information on toxicological effects

Symptoms No information available.

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.

Chemical name	ACGIH	IARC	NTP	OSHA
Carcinogenicity Chromium Compound		Group 3		

/ARC : (Internat,onat Agency for Research on Cancer)
 Group 3 - Not Classifiable as to Carcinogenicity in Humans

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.
 Target Organ Effects Central nervous system, eyes, Respiratory system, Skin.
 Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

Unknown acute toxicity 68 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) 11415 mg/kg
 ATEmix (dermal) 24850 mg/kg
 ATEmix (inhalation-dusUmist) 0

12. ECOLOGICAL INFORMATION

Eco toxicity

68% of the mixture consists of components) 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 PM ALCOHOL 107-98-2		20.8: 96 h Pimephales promelas g/L LC50 static 4600 - 10000: 96 h Leuciscus idus mg/L LC50 static		23300: 48 h Daphnia magna mg/L EC50
PROPYLENE GLYCOL IND 57-55-6	19000:96 h Pseudokirchneriella subcapitata mg/L EC50	51600: 96 h Oncorhynchus mykiss mg/L LC50 static 41 - 47 : 96 h Oncorhynchus mykiss ml/L LC50 static 51400 : 96 h Pimephales promelas mg/L LC50 static 710: 96 h Pimephales promelas mg/L LC50		10000: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50 Static

Persistence and degradability

No information available.

Bioaccumulation
 Bioaccumulative potential.

Chemical name	log Pow
GLYCOL ETHER PM ALCOHOL 107-98-2	-0.437

Other adverse effects No information available

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.

US EPA Waste Number 0001 0007

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste Status
Chromium Compound	Toxic Corrosive Ignitable

RESTRICTIONS - REACH TITLE VIII No information available

US Federal RegulationsSARA 313

Section 313 of Title 111 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 %
Chromium Compound	1.0

SARA 311/312 Hazard

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

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Chromium Compound		X		

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 C FR 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 RegulationsCalifornia 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
GLYCOL ETHER PM ALCOHOL	X	X	X		
Chromium Compound		X	X	X	
PROPYLENE GLYCOL IND		X	X		

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 O Personal Protection H

14. OTHER INFORMATION

Revision date	15-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