



## SAFETY DATA SHEET

Keda Dye LLC  
PO Box 1776  
Manitowoc, WI 54221

Issuing Date 15-Sep-2015

Revision Date 15-Sep-2015

Version 13

### 1. Identification of the Substance/Preparation and of the Company/Undertaking

Product Identifier  
Keda Dye LLC Walnut Brown

Recommended use of the chemical and restrictions on use

Synonyms N/A

Supplier's details

Recommended use Industrial Use Only.  
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

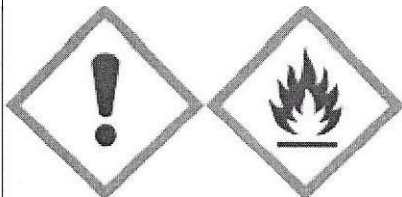
Classification

Specific target organ toxicity (single exposure) Category 3  
FLAMMABLE LIQUIDS Category 3

#### EMERGENCY OVERVIEW

Signal word  
WARNING

Hazard statements  
H336 - May cause drowsiness or dizziness  
FLAMMABLE LIQUID AND VAPOR



Appearance dark brown liquid

Physical State Liquid

Odor mild ether

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  
 P233 - Keep container tightly closed  
 P240 - Ground/bond container and receiving equipment  
 P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment  
 P242 - Use only non-sparking tools  
 P243 - Take precautionary measures against static discharge  
 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 (HNOC)

OTHER INFORMATION

Unknown Acute Toxicity

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

**3. Composition/information on Ingredients**

Chemical Name	GAS-No	WeiC1ht %	Trade secret
ETHOXY PROPANOL	1569-02-4	60-70	*
Chromium Compound	Proprietary	20-30	*

**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.

Most important symptoms/effects acute and delayed

**Main Symptoms** No information available.

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

**Notes to physician** Treat symptomatically.

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## 5. Fire-fighting measures

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### Suitable extinguishing media

Use: Dry chemical. Carbon dioxide. (CO<sub>2</sub>). 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

FLAMMABLE. 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, MSHNNIOSH (approved or equivalent) and full protective gear.

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## 6. Accidental release measures

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### Personal precautions, protective equipment and emergency procedures

Personal Precautions	Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. 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 further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.
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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	Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Take precautionary measures against static discharges.

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## 7. Handling and Storage

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### 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 tightly closed in a dry and cool place. Keep in properly labeled containers. Keep away from heat and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat.
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Incompatible Products	None known based on information supplied.
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## 8. Exposure Controls/Personal Protection

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Control Parameters

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Exposure guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Chromium Compound	Not Established	Not Established	IDLH: 15 mg/m <sup>3</sup> Cr(VI) IDLH: 25 mg/m <sup>3</sup> Cr(III) TWA: 0.0002 mg/m <sup>3</sup> Cr TWA: 0.5 mg/m <sup>3</sup> Cr

NIOSH 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.

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## 9. Physical and Chemical Properties

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Physical and Chemical Properties

Physical State	Liquid	Odor	mild ether
appearance	Dark brown liquid		
odor threshold	No information available		
<u>Property</u>	<u>VALUES</u>	<u>Remarks • Method</u>	
pH	6.50 - 10	N/A	
Melting point		N/A	
Boiling point/boiling range	< 110 °C / 230.00 °F		
FlashPoint	46 °C / - 115.00 °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	Explosive Properties	No
Vapor Density	No information available	information available	
Specific gravity	1.05		
Solubility in Other Solvents	No information available		
Partition coefficient: n-octanol/water	No information available		
available Auto-ignition Temperature	No Data Available		
decomposition temperature	No information available		
Kinematic viscosity	No Data Available		
Dynamic viscosity	No information available		

N/A

N/A

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Oxidizing properties No information available

**OTHER INFORMATION**

Softening point No information available  
Molecular Weight  
VOC Content(%) No information available.  
density 8.75

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## **10. Stability and Reactivity**

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**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.

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## **11. Toxicological Information**

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**Information on Likely Routes of Exposure****Product information**

INHALATION	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.

**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.

**Carcinogenicity**

Chemical Name	ACGIH	IARC	NTP	OSHA
Chromium Compound		Group 3		

*/ARC: (International 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.

Chronic toxicity May cause adverse liver effects.  
Blood, EYES, Kidney, Liver, Lungs, Respiratory System, skin.  
Target organ effects

Aspiration Hazard No information available.

**Numerical Measures of Toxicity - Product information**

Unknown Acute Toxicity 24.7 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)	6929 mg/kg
ATEmix (dermal)	12756 mg/kg
ATEmix (inhalation-gas)	700
ATEmix (inhalation-dust/mist)	2213.3
ATEmix (inhalation-vapor)	67.1 mg/l

**12. Ecological Information**

Eco toxicity

63 .5% 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
ETHOXY PROPANOL 1569-02-4		10000: 24 h Pimephales promelas mg/LLCSO 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.

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 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 %
ETHOXY PROPANOL	1.0
Chromium Compound	1.0

SARA 311/312 Hazard Categories

Acute health hazard	
Chronic health hazard	YES.
Fire hazard	NO.
Sudden Release of Pressure Hazard	YES.
Reactive Hazard	NO.





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 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
Chromium Compound		X	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

83 Combustible liquid  
 D2B Toxic materials

HMIS                      Health Hazard 2                      flammability 2                      Physical hazard 0                      PERSONAL PROTECTION H

**14. Other Information**

Issuing Date                      05-Nov-2014  
 Revision Date                      15-Sep-2015  
 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