

SAFETY DATA SHEET.

Issuing date 27-Jan-2015 Revision Date 27-Jan-2015 Version 1

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

Product identifier

Product name CITRI-SOLV

Recommended use of the chemical

and restrictions on use

Product code XP02204

Product Type Combustible liquid

Synonyms None

Supplier's details

Recommended Use All Purpose Cleaner.
Uses advised against No information available

Manufactured For: Kimball Midwest 4800 Roberts Rd. Columbus, OH 43228

Emergency telephone number

Chemical Emergency Phone Chemtrec 1-800-424-9300

Number

Company Emergency Phone 1-800-233-1294

Number

2. HAZARDS IDENTIFICATION

Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin Sensitization	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable Liquids	Category 4

GHS Label elements, including precautionary statements

Emergency Overview

WARNING

Hazard Statements

Causes skin irritation
Causes serious eye damage
May cause an allergic skin reaction
Suspected of causing cancer
May cause respiratory irritation
Combustible liquid



Appearance Clear Physical state Liquid Odor Citrus

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wear protective gloves/protective clothing/eye protection/face protection

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Keep away from flames and hot surfaces. -No smoking.

Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN: Wash with plenty of soap and water.

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up

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

Keep cool.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None

Other information

· Toxic to aquatic life with long lasting effects

16% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %*
D-LIMONENE	5989-27-5	30-40
DIBUTYLENE GYCOL N-BUTYL ETHER	112-34-5	10-20
DIETHANOLAMINE	111-42-2	1-10

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures for different exposure routes

General advice Avoid contact with eyes, and clothing. Avoid breathing, vapors, mist, or gas.

Eye contact In the case of contact with eyes, rinse immediately with plenty of water for 15 minutes and

seek medical advice.

Skin contact Wash off immediately with soap and plenty of water. If skin irritation persists, call a

physician.

Inhalation Move to fresh air. If not breathing, give artificial respiration. If breathing has stopped,

contact emergency medical services immediately.

Ingestion Do NOT induce vomiting. Call a physician immediately. Never give anything by mouth to an

unconscious person. Risk of product entering the lungs on vomiting after ingestion.

Most important symptoms/effects, acute and delayed

Main Symptoms May cause skin irritation. Drowsiness. Dizziness. Difficulty breathing.

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

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

water fog. Dry chemical. Carbon dioxide (CO2). Cool containers / tanks with water spray.

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

Specific hazards arising from the chemical

Flammable /Combustible liquid. Container may burst in fire.

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. Use shielding to protect fire-fighters from bursting containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Environmental precautions

Environmental precautions Report spills as required by local and federal regulations.

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 Contain liquid and collect with an inter, non-combustible material.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with eyes. Avoid breathing vapors or mists. Keep away from heat, sparks and

open flame. No smoking.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage

conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible products Store away from strong oxidizers and acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
DIBUTYLENE GYCOL N-BUTYL ETHER	TWA: 10 ppm inhalable fraction	-	-
112-34-5	and vapor		
DIETHANOLAMINE	TWA: 1 mg/m³ inhalable fraction	(vacated) TWA: 3 ppm	TWA: 3 ppm
111-42-2	and vapor	(vacated) TWA: 15 mg/m ³	TWA: 15 mg/m ³
	Skin - potential significant		
	contribution to overall exposure		
	by the cutaneous route		

ACGIH: (American Conference of Governmental Industrial Hygienists)

OSHA: (Occupational Safety & Health Administration) NIOSH IDLH: Immediately Dangerous to Life or Health

Other 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 MeasuresVentilation systems. Use adequate ventilation to keep the exposure levels below the OELs.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields.

Skin and body protection Chemical resistant apron. Protective gloves.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

Odor

Citrus

provided in accordance with current local regulations.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Physical state Liquid
Appearance Clear

ColorOdor ThresholdNo information available

<u>Property</u> <u>Values</u> <u>Remarks • Methods</u>

pH 10.3

Melting/freezing pointNo information availableBoiling point/boiling rangeNo information available

Flash Point > 43 °C / > 110 °F Based on lowest flashpoint of the products constituent.

Evaporation rate No information available Flammability (solid, gas) No information available

Flammability Limits in Air

upper flammability limitNo information availablelower flammability limitNo information availableVapor pressureNo information availableVapor densityNo information available

Specific Gravity 0.945

Water solubility Practically insoluble
Partition coefficient: n-octanol/waterNo information available
Autoignition temperature No information available
Decomposition temperature No information available
Viscosity No information available
Explosive properties No information available

Other information

VOC Content(%) 42.5

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

Extremes of temperature and direct sunlight.

Incompatible Materials

Store away from strong oxidizers and acids.

Hazardous Decomposition Products

Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known information

Inhalation Exposure to high vapour concentrations may cause nervous systems effects such as

headache, nausea, and dizziness.

Eye contact May cause slight irritation.

Skin contact Irritating to skin. Prolonged skin contact may defat the skin and produce dermatitis.

Ingestion Ingestion may cause stomach discomfort.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
D-LIMONENE	= 4400 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
5989-27-5			
DIBUTYLENE GYCOL N-BUTYL	= 3384 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	-
ETHER			
112-34-5			
DIETHANOLAMINE	= 0.62 mL/kg (Rat)	-	-
111-42-2			

Information on toxicological effects

Symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Irritating to skin. Prolonged or repeated exposure may cause dermatitis. Contact with eyes

may cause irritation. Not acutely toxic. May be harmful if swallowed.

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

Skin corrosion/irritation Eye damage/irritationIrritating to skin.

Irritating to eyes.

Sensitization May cause an allergic skin reaction.

Germ Cell Mutagenicity No information available.

Carcinogenicity There are no known carcinogenic chemicals in this product.

Chemical Name	ACGIH	IARC	NTP	OSHA
DIETHANOLAMINE	-	2B	-	x
111-42-2				

IARC: (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Reproductive toxicity The ingredients are not reproductive hazards.

Specific target organ systemic toxicity (single exposure)

May cause drowsiness and dizziness.

toxicity (single exposure)
Specific target organ systemic
toxicity (repeated exposure)

No information available.

Chronic toxicity Prolonged skin contact may defat the skin and produce dermatitis.

Target Organ Effects Eyes, Respiratory system, Skin, Central nervous system, Kidney, Peripheral Nervous

System (PNS).

Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 16% of the mixture consists of ingredient(s) of unknown toxicity

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

 ATEmix (oral)
 9104 mg/kg

 ATEmix (dermal)
 5754 mg/kg mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
D-LIMONENE 5989-27-5	-	0.619 - 0.796 mg/L LC50 Pimephales promelas 96h flow-through 35 mg/L LC50 Oncorhynchus mykiss 96h	-	-
DIBUTYLENE GYCOL N-BUTYL ETHER 112-34-5	100 mg/L EC50 Desmodesmus subspicatus 96h	1300 mg/L LC50 Lepomis macrochirus 96h static	-	100 mg/L EC50 Daphnia magna 48h
DIETHANOLAMINE 111-42-2	7.8 mg/L EC50 Desmodesmus subspicatus 72h 2.1 - 2.3 mg/L EC50 Pseudokirchneriella subcapitata 96h	1200 - 1580 mg/L LC50 Pimephales promelas 96h static 4460 - 4980 mg/L LC50 Pimephales promelas 96h flow-through 600 - 1000 mg/L LC50 Lepomis macrochirus 96h static	-	55 mg/L EC50 Daphnia magna 48h

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	log Pow
DIETHANOLAMINE	-2.18
111-42-2	

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste Disposal Methods Dispose of in accordance with federal, state, and local regulations.

Contaminated packaging Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT Ground UN2319, TERPENE HYDROCARBONS, N.O.S., 3, PGIII

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
D-LIMONENE	Χ	X	X	Χ	X	X	X	Χ
DIBUTYLENE GYCOL N-BUTYL ETHER	Х	Х	Х	Х	Х	Х	Х	Х
DIETHANOLAMINE	X	Х	Х	Х	Х	X	Х	Х

Legend:

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

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

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

ENCS - Japan Existing and New Chemical Substances

CHINA - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. 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	CAS-No	Weight %*	SARA 313 - Threshold Values %
DIBUTYLENE GYCOL N-BUTYL ETHER - 112-34-5	112-34-5	10-20	1.0
DIETHANOLAMINE - 111-42-2	111-42-2	1-10	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
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, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
DIETHANOLAMINE	100 lb		RQ 100 lb final RQ
111-42-2			RQ 45.4 kg final RQ

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
DIETHANOLAMINE - 111-42-2	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
DIBUTYLENE GYCOL N-BUTYL	X		X
ETHER			
112-34-5			

DIETHANOLAMINE	X	X	X
111-42-2			

EPA Pesticide Registration Number Not applicable

Canada

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.

16. OTHER INFORMATION

NFPA Health Hazard 2 Flammability 2 Instability 0 Physical and chemical

hazards -

HMIS Health Hazard 2 Flammability 2 Physical Hazard 0 Personal protection B

Prepared ByRegulatory AffairsIssuing date27-Jan-2015Revision Date27-Jan-2015

Revision Note

No information available

Disclaimer

The information provided on this SDS 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