WECHEM® Engineered Chemistries Superior Solutions **SDS**

Solu - Cut (Rev 1-17-24)

SDS Number: L50C

Revision Date: 1/17/2024

1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer
Wechem, Inc
5734 Susitna Dr
Harahan, LA 70123

Contact: Ligia M. Hernandez
Phone: 504-733-1152
Fax: 504-733-2218
Web: www.wechem.com

Product Identifier: Solu - Cut (Rev 1-17-24)
SDS Number: L50C
Product Code: L50
Revision Date: 1/17/2024
Product Use: Soluble Oil for Metal Cutting & Grinding

Emergency Telephone Number:
INFOTRAC
1-800-535-5053

2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Specific target organ toxicity - Single exposure, 3
Health, Skin sensitization, 1
Health, Reproductive toxicity, 2
Environmental, Hazards to the aquatic environment - Chronic, 3

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: WARNING

GHS Hazard Pictograms:

GHS Hazard Statements:

H335 - May cause respiratory irritation
H317 - May cause an allergic skin reaction
H361 - Suspected of damaging fertility or the unborn child
H412 - Harmful to aquatic life with long lasting effects

GHS Precautionary Statements:

P202 - Do not handle until all safety precautions have been read and understood.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P262 - Do not get in eyes, on skin, or on clothing.
P264 - Wash thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P281 - Use personal protective equipment as required.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing.
P314 - Get Medical advice/attention if you feel unwell.
P321 - Specific treatment (see notes to Physician on this label).
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.
P333+313 - If skin irritation or a rash occurs: Get medical advice/attention.
P342 - If experiencing respiratory symptoms: Get medical advice/attention.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

Route of Entry: Inhalation, skin absorption, eye, ingestion
Target Organs: NA
Inhalation: May cause respiratory irritation.
Skin Contact: Causes irritation or an allergic skin reaction.
Eye Contact: May cause eye irritation
Ingestion: May cause irritation, nausea., vomiting, diarrhea

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients:		
CAS#	%	Chemical Name:
	70-98%	Highly Refined Mineral Oil (C-15-C30)
111-46-6	1-5%	Diethylene glycol
111-76-2	1-5%	Ethylene glycol monobutyl ether
107-41-5	1-5%	Hexylene glycol
2682-20-4	0.002-0.01%	2-methyl-4-thiazoline-3-ketone

4 FIRST AID MEASURES

Inhalation: If symptoms develop move victim to fresh air. Get medical attention if symptoms develop or persist.
Skin Contact: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical advice/attention if symptoms develop or persist.
Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get immediate medical advice/attention.
Ingestion: Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

IMMEDIATE HEALTH EFFECTS
Eye: Not expected to cause prolonged or significant eye irritation.
Skin: Contact with the skin may cause an allergic skin reaction. Skin contact may cause drying or defatting of the skin. Symptoms may include pain, itching, discoloration, swelling and blistering.
Ingestion: Not expected to be harmful if swallowed.
Inhalation: Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.

5 FIRE FIGHTING MEASURES

Flash Point: 428 Deg. F. (220 C) Minimum
Flash Point Method: Cleveland Open Cup (COC)
Autoignition Temp: No data available
LEL: Not applicable
UEL: Not applicable
Extinguishing media: Foam, dry chemical, carbon dioxide (CO2), water fog to extinguish flames.

Special Fire fighting procedures: This material will burn although it is not easily ignited. See section 7 for proper handling and storage. For Fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. Self contained breathing apparatus and protective clothing. Cool-fire exposed containers to prevent rupturing.

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gassed including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

6 ACCIDENTAL RELEASE MEASURES

Eliminate all sources of ignition in vicinity of spilled material. Stop the source of the release if you can do so without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Report spills to local authorities as appropriate or required.

7 HANDLING AND STORAGE

Handling Precautions:

Avoid contaminating soil or releasing this material into sewerage and drainage systems and bodies of water. Do not get into eyes, on skin, or on clothing. Do not breathe oil mist at concentrations above the recommended mineral oil mist exposure limit. Do not taste or swallow. Wash thoroughly after handling. Do not weld, heat or drill container. Do not use pressure to empty drums or explosion may result. Keep away from heat, sparks and other sources of ignition.

Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation and vacuum truck operations) and use appropriate mitigation procedures.

Storage Requirements:

Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empy containers retain product residue (solid, liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly disposed of. Keep out of reach of children.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Ventilation Requirement: Adequate ventilation to keep exposure below TLV. Use in a well-ventilated area.

Personal Protective Equipment:

Respiratory Protection: None required under normal use conditions. If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge. Use a postitive pressure air-supplying respirator in curcumstances where air-purifying respirators may not provide adequate protection.

Protective gloves: Wear chemical PPE to prevent skin contact. Suggested materials for gloves include: Chlorinated Polyethylene (or Chlorosulfonated Polyethylene), Nitrile Rubber, Silver Shield, Viton.

Eye protection: Safety glasses/goggles/face shield

Wear protective clothing to prevent skin contact. Selection of protective clothing may include gloves, apron, boots.

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking.

Highly Refined mineral oil (C15-C50) (CAS# N/A) [70-99%]
ACGIH
TWA 5 mg/m3
STEL 10 mg/m3
OSHA Z-1 5 mg/m3

Diethylene glycol cas#:(111-46-6) [1-5%]

Components with workplace control parameters

TWA	10 mg/m3	USA. Workplace Environmental Exposure Levels (WEEL)

Ethylene glycol monobutyl ether cas#:(111-76-2) [1-5%]

Components with workplace control parameters

TWA	20 ppm	USA. ACGIH Threshold Limit Values (TLV)

Eye & Upper Respiratory Tract irritation
Confirmed animal carcinogen with unknown relevance to humans

TWA	5 ppm 24 mg/m3	USA. NIOSH Recommended Exposure Limits

Potential for dermal absorption

TWA	50 ppm 240 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

Skin designation
The value in mg/m3 is approximate.

TWA	25 ppm 120 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

Skin notation

Hexylene glycol cas#:(107-41-5) [1-5%]

Components with workplace control parameters

CEIL	25 ppm	USA. ACGIH Threshold Limit Values (TLV)

CEIL	25 ppm 125 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown		
Physical State:	Liquid	**Odor:**	Hydrocarbon

Spec Grav./Density:	(H20=1): 0.92 - 0.93 @ 59 Deg F (15 C) (Typical)	**Solubility:**	Forms emulsion with water
Viscosity:	28 mm2/s - 48mm2/s @ 104 F (40 C)	**Freezing/Melting Pt.:**	Not applicable
Boiling Point:	212 Deg.F (100 Deg.C) Minimum	**Flash Point:**	428 Deg. F. (220 C) Minimum
Vapor Pressure:	No data available	**Octanol:**	Not available
pH:	Not applicable	**Vapor Density:**	(Air=1): No data available
Evap. Rate:	Not available	**VOC:**	44 g/l (Typical)
		Auto-Ignition Temp:	No data available
		UFL/LFL:	Not applicable / Not applicable

10 STABILITY AND REACTIVITY

Reactivity: May react with strong acids and strong oxidizing agents such as chlorates, nitrates, peroxides, etc.

Chemical Stability: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure, use, storage and transport.

Conditions to Avoid: Contact with incompatible materials.

Materials to Avoid: May react with strong acids and strong oxidizing agents such as chlorates, nitrates, peroxides, etc.

Hazardous Decomposition: None known (none expected)

Hazardous Polymerization: Will not occur

11 TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Serious Eye Damage/Irritation: The material is not considered an eye irritant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Skin Corrosion/Irritation: The material is not considered a skin irritant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Skin Sensitization: The material may cause an allergic skin reaction. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Dermal Toxicity: The material is not considered a dermal toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Oral Toxicity: The material is not considered an oral toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Inhalation Toxicity: The material is not considered an inhalation toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Germ Cell Mutagenicity: The material is not considered a mutagen. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Carcinogenicity: The material is not considered a carcinogen. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Reproductive Toxicity: This material is suspected of damaging fertility or the unborn child. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Specific Target Organ Toxicity- Single Exposure: The material is not considered a target organ toxicant (single exposure). The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Specific Target Organ Toxicity- Repeated Exposure: The material is not considered a target organ toxicant (repeated exposure). The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Aspiration Hazard: The material is not considered an aspiration hazard.

ADDITIONAL TOXICOLOGY INFORMATION:
This product contains diethylene glycol (DEG). The estimated oral lethal dose is about 50 cc (1.6oz) for an adult human. DEG has caaused the following effects in laboratory animals: liver abnormalitites, kidney damage and blood abnormalities. It has been suggested as a cause of the following effects in humans: liver abnormalities, kidney damage, lung damage and central nervous system damage.

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).
These oils have not been classified by the American Conference of Governmentl Industrial Hygienists (ACGIH) as: confirmed human carcingen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

Diethylene glycol cas#:(111-46-6) [1-5%]

Information on toxicological effects

Acute toxicity:
LD50 Oral - rat - 12,565 mg/kg
Inhalation: no data available

LD50 Dermal - rabbit - 11,890 mg/kg

Skin corrosion/irritation: Skin - rabbit Result: Mild skin irritation

Serious eye damage/eye irritation: Eyes - rabbit Result: Mild eye irritation

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: ID5950000

Confusion., Dizziness, Kidney injury may occur., Unconsciousness, Convulsions, Pulmonary edema. Effects may be delayed., Nausea, Headache, Vomiting
Liver - Irregularities - Based on Human Evidence

Ethylene glycol monobutyl ether cas#:(111-76-2) [1-5%]

Information on toxicological effects

Acute toxicity:
LD50 Oral - rat - 470 mg/kg
LC50 Inhalation - rat - 4 h - 450 ppm Remarks: Behavioral:Ataxia. Nutritional and Gross Metabolic:Weight loss or decreased weight gain.
LD50 Dermal - rabbit - 220 mg/kg
LD50 Intraperitoneal - rat - 220 mg/kg
LD50 Intravenous - rat - 307 mg/kg

Skin corrosion/irritation: Skin - rabbit Result: Open irritation test

Serious eye damage/eye irritation: Eyes - rabbit Result: Moderate eye irritation - 24 h

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:
IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Butoxyethanol)
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: KJ8575000

Human exposure above 200 ppm can be expected to cause narcosis, damage to the kidney and liver and present an abnormal blood picture showing erythropenia, reticulocytosis, granulocytosis, leukocytosis, and would be likely to
cause fragility of erythrocytes and hematuria. Swallowing of 2-butoxyethanol results in a sour taste that turns to a burning sensation and is followed by numbness of the tongue which indicates paralysis of the sensory nerve endings., Central nervous system depression, Headache, narcosis
Stomach - Irregularities - Based on Human Evidence

Hexylene glycol cas#:(107-41-5) [1-5%]

Information on toxicological effects

Acute toxicity:
Oral LD50 LD50 Oral - rat - 3,700 mg/kg
Inhalation LC50 no data available
Dermal LD50
LD50 Dermal - rabbit - 7,892 mg/kg
Other information on acute toxicity

Skin corrosion/irritation: Skin - rabbit - Skin irritation - 24 h

Serious eye damage/eye irritation: Eyes - rabbit - Severe eye irritation

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System):
no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System):
no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects: no data available

Additional Information:

RTECS: SA0810000

12 ECOLOGICAL INFORMATION

ECOTOXICITY
This material is expected to be harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

This material in not expected to be readily biodegradable. The product has not been tested. The statement has been derived from the propertied of the individual components.

Diethylene glycol cas#:(111-46-6) [1-5%]

Information on ecological effects

Toxicity:
Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 75,200 mg/l - 96 h.
LC50 - Carassius auratus (goldfish) - 5,000 mg/l - 24 h
Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - > 10,000 mg/l - 24 h.
other aquatic invertebrates

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

Ethylene glycol monobutyl ether cas#:(111-76-2) [1-5%]

Information on ecological effects

Toxicity:
Toxicity to fish LC50 - other fish - 220 mg/l - 96 h.
Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 1,815 mg/l - 24 h.
other aquatic invertebrates

Persistence and degradability: no data available

Ratio BOD/ThBOD 88 %

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

Hexylene glycol cas#:(107-41-5) [1-5%]

Information on ecological effects

Toxicity:
Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 10,700 mg/l - 96 h.
Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 3,200 mg/l - 48 h.
and other aquatic invertebrates

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: no data available

13 DISPOSAL CONSIDERATIONS

Dispose of according to local, state, or federal regulations.

14 TRANSPORT INFORMATION

Proper Shipping Name: Not Regulated

15 REGULATORY INFORMATION

[%] RQ (CAS#) Substance - Reg Codes

[1-5%] Diethylene glycol (111-46-6) HAP, PA, TSCA

[1-5%] Ethylene glycol monobutyl ether (111-76-2) HAP, MASS, OSHAWAC, PA, SARA313, TSCA, TXAIR

[1-5%] Hexylene glycol (107-41-5) MASS, OSHAWAC, PA, TSCA, TXAIR

[0.002-0.01%] 2-methyl-4-thiazoline-3-ketone (2682-20-4) GADSL, TSCA

This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Regulatory Code Legend

HAP = Hazardous Air Pollutants
PA = PA Right-To-Know List of Hazardous Substances
TSCA = Toxic Substances Control Act
MASS = MA Massachusetts Hazardous Substances List
OSHAWAC = OSHA Workplace Air Contaminants
SARA313 = SARA 313 Title III Toxic Chemicals
TXAIR = TX Air Contaminants with Health Effects Screening Level
GADSL = Global Automotive Declarable Substance List (GADSL)

16 OTHER INFORMATION

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.
N/A = Not available N/D = Not determined