



SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

Section 1: Product and Company Identification

Product Name:	Special Flame Cutting Cleaner (Aerosol)
Product Identifier:	Special Flame Cutting Cleaner
Product Use:	Flame cutting cleaner
Item Code(s):	RW11111-16
SDS Code:	011
Manufacturer:	KCI, Inc.
Physical Address:	3401 Reno Avenue Charlotte, N.C. 28216
Mailing Address:	P.O. Box 26614 Charlotte, N.C. 28221
Business Phone:	704-372-8435
Business Fax:	704-333-5955
E-mail Address:	info@kciincorporated.com
Web Address:	www.kciincorporated.com
Emergency Phone:	CHEMTREC (24-Hour) 1-800-424-9300
Date of Preparation:	February 11, 2015 (Revised May 21, 2015)
OSHA Regulatory Status:	Regulated
WHMIS Classification:	

Section 2: Hazard Identification

Classification of the Substance or Mixture

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3
Aspiration toxicity	Category 1
Gases under pressure	Compressed Gas

GHS Label Elements, Including Precautionary Statements

Emergency Overview

DANGER

Hazard Statements

Causes severe skin burns and eye damage.
May cause drowsiness or dizziness.
May be fatal if swallowed and enters airways.
Contains gas under pressure; may explode if heated.



Appearance Clear

Physical State Aerosol

Odor Fragrance

Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash hands and face thoroughly after handling.

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

Use only outdoors or in a well-ventilated area.

Precautionary Statements - Response

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 (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Precautionary Statements - Storage

Store locked up.

Protect from sunlight. Store in a well-ventilated place.

Keep container tightly closed.

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
- 0.00000399% of the mixture consists of ingredient(s) of unknown toxicity

Section 3: Composition and Information on Ingredients

Chemical Name	CAS-No	Weight %*
PROPANE/ISOBUTANE/N-BUTANE	68476-86-8	1-10
POLYETHYLENE MONO(OCTYLPHENYL)	9002-93-1	1-10
TRISODIUM PHOSPHATE	10101-89-0	1-10
SODIUM METASILICATE PENTAHYDRATE	6834-92-0	1-10
2-BUTOXYETHANOL	111-76-2	1-10

Section 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: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

SKIN CONTACT: Wash off with soap and 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. Inhalation causing Central Nervous System effects. Ingestion causing lung damage.

Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary

NOTES TO PHYSICIAN: Treat symptomatically.

Section 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: Keep product and empty container away from heat and sources 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, MSHA/NIOSH (approved or equivalent) and full protective gear. Use shielding to protect fire-fighters from bursting containers

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

PERSONAL PRECAUTIONS: Use with adequate ventilation to keep the exposure levels below the OELS.

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 inert, non-combustible material

Section 7: Handling and Storage

Precautions for Safe Handling

ADVICE ON SAFE HANDLING: Avoid skin contact. Use with adequate ventilation. Keep container away from heat, flames, and all other sources of ignition. Keep can away from all sources of electricity such as electric motors and batteries. Do not spray on hot surfaces.

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.

AEROSOL LEVEL: 1

Section 8: Exposure Controls / Personal Protection

Control Parameters

EXPOSURE GUIDELINES:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
PROPANE/ISOBUTANE/ N-BUTANE 68476-86-8	74-98-6: TWA: 1000 ppm 106-97-8: STEL: 1000 ppm 75-28-5: STEL: 1000 ppm	74-98-6:TWA: 1000 ppm TWA: 1800 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1800 mg/m ³ 106-97-8: (vacated) TWA: 800 ppm (vacated) TWA: 1900 mg/m ³	74-98-6:IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m ³ 106-97-8:TWA: 800 ppm TWA: 1900 mg/m ³ 75-28-5:TWA: 800 ppm TWA: 1900 mg/m ³
2-BUTOXYETHANOL 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m ³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m ³ (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m ³

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 MEASURES: Ventilation 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 provided in accordance with current local regulations.

HYGIENE MEASURES: Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and Chemical Properties

<u>PHYSICAL STATE:</u>	Aerosol
<u>APPEARANCE:</u>	Clear
<u>COLOR:</u>	Clear
<u>ODOR:</u>	Fragrance
<u>ODOR THRESHOLD:</u>	No information available

Property	Values	Remarks • Methods
<u>pH:</u>	12.5	
<u>MELTING/FREEZING POINT:</u>	No information available	
<u>BOILING POINT/BOILING RANGE:</u>	No information available	
<u>FLASH POINT:</u>	-104.4°C / -156°F	Based on propellant
<u>EVAPORATION RATE:</u>	No information available	
<u>FLAMMABILITY (SOLID, GAS):</u>	No information available	
<u>FLAMMABILITY LIMITS IN AIR:</u>		
Upper Flammability Limit:	No information available	
Lower Flammability Limit:	No information available	
<u>VAPOR PRESSURE:</u>	No information available	
<u>VAPOR DENSITY:</u>	No information available	
<u>SPECIFIC GRAVITY:</u>	0.992	
<u>WATER SOLUBILITY:</u>	Practically insoluble	
<u>PARTITION COEFFICIENT: n-octanol/water</u>	No information available	
<u>AUTO IGNITION TEMPERATURE:</u>	No information available	
<u>DECOMPOSITION TEMPERATURE:</u>	No information available	
<u>VISCOSITY:</u>	No information available	
<u>EXPLOSIVE PROPERTIES:</u>	No information available	
Other Information		
<u>VOC CONTENT(%):</u>	7.64	

Section 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. Fumes. Hydrocarbons.

Section 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: Severely irritating to eyes.

SKIN CONTACT: Contact causes severe skin irritation and possible burns.

INGESTION: Not acutely toxic. Aspiration into the lungs during swallowing may cause serious lung damage which may be fatal.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
POLYETHYLENE MONO(OCTYLPHENYL) 9002-93-1	= 1800 mg/kg (Rat)	-	-
SODIUM METASILICATE PENTAHYDRATE 6834-92-0	= 600 mg/kg (Rat)	-	-
2-BUTOXYETHANOL 111-76-2	= 470 mg/kg (Rat)	= 99 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h

Information on Toxicological Effects

SYMPTOMS: Symptoms of overexposure may be headache, dizziness, tiredness, nausea, and vomiting. May cause mild irritation. Irritating to skin. Prolonged or repeated exposure may cause dermatitis. Not acutely toxic. Aspiration into the lungs during swallowing may cause serious lung damage which may be fatal.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure

SKIN CORROSION/IRRITATION: Irritating to skin. Causes severe burns.

EYE DAMAGE/IRRITATION: Irritating to eyes. Risk of serious damage to eyes.

SENSITIZATION: No information available.

GERM CELL MUTAGENICITY: No information available.

CARCINOGENICITY: The table below indicates whether each agency has evaluated a listed ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
2-BUTOXYETHANOL 111-76-2	A3	Group 3	-	-

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

REPRODUCTIVE TOXICITY: The ingredients are not reproductive hazards.

SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE): May cause drowsiness and dizziness.

SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE): No information available.

CHRONIC TOXICITY: Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and potential cardiac arrest. Prolonged skin contact may defat the skin and produce dermatitis.

TARGET ORGAN EFFECTS: Blood, Central Nervous System, Eyes, Hematopoietic System, Kidney, Liver, Respiratory System, Skin.

ASPIRATION HAZARD: May be fatal if swallowed and enters airways.

Numerical Measures of Toxicity - Product Information

UNKNOWN ACUTE TOXICITY: 0.00000399% 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): 36306 mg/kg

ATEmix (dermal): 107942 mg/kg

ATEmix (inhalation-dust/mist): 147.2 mg/l

ATEmix (inhalation-vapor): 44001 mg/l

Section 12: Ecological Information

Ecotoxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
SODIUM METASILICATE PENTAHYDRATE 6834-92-0	-	210 mg/L LC50 Brachydanio rerio 96h 210 mg/L LC50 Brachydanio rerio 96h semi-static	-	-
2-BUTOXYETHANOL 111-76-2	-	1490 mg/L LC50 Lepomis macrochirus 96h static 2950 mg/L LC50 Lepomis macrochirus 96h	-	1000 mg/L EC50 Daphnia magna 48h

PERSISTENCE AND DEGRADABILITY: No information available.

BIOACCUMULATION: No information available.

Component Name	Log Pow
PROPANE/ISOBUTANE/N-BUTANE 68476-86-8	2.8
2-BUTOXYETHANOL 111-76-2	0.81

OTHER ADVERSE EFFECTS: No information available

Section 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.

Section 14: Transportation Information

DOT GROUND: CONSUMER COMMODITY ORM-D
or LIMITED QUANTITY

IATA: UN1950, AEROSOLS, NON-FLAMMABLE, 2.2, LTD. QTY

IMDG: UN1950, AEROSOLS, 2.2, LTD. QTY

Section 15: Regulatory Information

INTERNATIONAL INVENTORIES

Chemical Name	TSCA	DSL/NDSL	EINECS/ ELINCS	ENCS	IECSC	KECL	PICCS	AICS
PROPANE/ISOBUTANE/ N-BUTANE	X	X	X	Not listed	X	X	X	X
POLYETHYLENE MONO (OCTYLPHENYL)	X	X	Not listed	X	X	X	X	X
TRISODIUM PHOSPHATE	Not listed	Not listed	Not listed	Not listed	X	Not listed	X	X
SODIUM METASILICATE PENTAHYDRATE	X	X	X	X	X	X	X	X
2-BUTOXYETHANOL	X	X	X	X	X	X	X	X

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 %
2-BUTOXYETHANOL - 111-76-2	111-76-2	1-10	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard: Yes

Chronic Health Hazard: Yes

Fire Hazard: No

Sudden Release of Pressure Hazard: Yes

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
TRISODIUM PHOSPHATE 10101-89-0	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

U.S. STATE REGULATIONS

California Proposition 65

No warning required.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
TRISODIUM PHOSPHATE 10101-89-0		X	X
2-BUTOXYETHANOL 111-76-2	X	X	X

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 SDS contains all the information required by the CPR.

Section 16: Other Information

NFPA Health Hazard | 2 | Flammability | 1 | Instability | 0 | Physical and Chemical Hazards | - |
HMIS Health Hazard | 2 | Flammability | 1 | Physical Hazard | 1 | Personal Protection | B |

N/E Not Established
N/Av Not Available
N/Ap Not Applicable
IARC International Agency for Research on Cancer
ACGIH American Conference of Governmental Industrial Hygienists
NIOSH National Institute for Occupational Health and Safety
TLV-TWA Threshold Limit, Time Weighted Average
NAERG North American Emergency Response Guidebook
WHMIS Workplace Hazardous Materials Information System

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