

SAFETY DATA SHEET

CircuitWorks® Rosin Flux Remover Pen

Section 1. Identification			
GHS product identifier	: CircuitWorks® Rosin Flux Remover Pen		
Product code	: CW9200		
Chemical name	: Flux Remover Pen		
Other means of identification	: CW9200		
Product type	: Liquid.		
Relevant identified uses of	of the substance or mixture and uses advised against		
Not applicable.			
Supplier's details	: Chemtronics 8125 Cobb Center Drive Kennesaw, GA 30152		
	Tel. 770-424-4888 or toll free 800-645-5244		
Emergency telephone number (with hours of operation)	: Chemtrec - 1-800-424-9300 or collect 703-527-3887 24/7		
Section 2. Hazards identification			
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).		
Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A		

GHS label elements

Hazard pictograms

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Signal word	inger	
Hazard statements	ghly flammable liquid and vapor. Juses serious eye irritation.	
Precautionary statements		
Prevention	ear protective gloves. Wear eye or face protection. Keep away fror fraces, sparks, open flames and other ignition sources. No smoking pof electrical, ventilating, lighting and all material-handling equipmer arking tools. Take precautionary measures against static discharge htly closed. Wash hands thoroughly after handling.	Use explosion- it. Use only non-
Response	ON SKIN (or hair): Take off immediately all contaminated clothing. ter or shower. IF IN EYES: Rinse cautiously with water for several move contact lenses, if present and easy to do. Continue rinsing. If rsists: Get medical attention.	minutes.
Storage	pre in a well-ventilated place. Keep cool.	
Disposal	spose of contents and container in accordance with all local, regiona ernational regulations.	I, national and
Hazards not otherwise classified	ne known.	

Section 3. Composition/information on ingredients

Substance/mixture

- : Mixture
- **Chemical name**

Other means of identification

- : Flux Remover Pen
- : CW9200

Ingredient name	%	CAS number
Isopropyl alcohol	≥50 - ≤75	67-63-0
hexamethyldisiloxane	≥25 - ≤50	107-46-0
propyl acetate	≤10	109-60-4
1-methoxy-2-propanol	≤5	107-98-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

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Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.		
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.		
Skin contact	 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. 		
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.		
	ns/effects, acute and delayed		
Potential acute health e			
Eye contact	: Causes serious eye irritation.		
Inhalation	: Can cause central nervous system (CNS) depression.		
Skin contact	: No known significant effects or critical hazards.		
Ingestion	: Do not ingest. If swallowed then seek immediate medical assistance.		
Over-exposure signs/sy	<u>imptoms</u>		
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness		

Section 4. First aid measures

Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: No specific data.
Ingestion	: Adverse symptoms may include the following: Ingestion Seek medical attention.
Indication of immediate med	dical attention and special treatment needed, if necessary
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

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Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Section 6. Accidental release measures

Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ontainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling	
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name			Exposure limit	ts	
Isopropyl alcohol			STEL: 400 ppr TWA: 200 ppn NIOSH REL (U STEL: 1225 m STEL: 500 ppr TWA: 980 mg/ TWA: 400 ppn	n 8 hours. nited States, 10/2013). Ig/m ³ 15 minutes. m 15 minutes. /m ³ 10 hours.	
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Section 8. Exposure controls/personal protection

	TWA: 980 mg/m ³ 8 hours. TWA: 400 ppm 8 hours. OSHA PEL 1989 (United States, 3/1989). STEL: 1225 mg/m ³ 15 minutes.
	OSHA PEL 1989 (United States, 3/1989).
	STEL. 1225 mg/m 15 minutes.
	STEL: 500 ppm 15 minutes.
	TWA: 980 mg/m ³ 8 hours.
	TWA: 400 ppm 8 hours.
hexamethyldisiloxane	None.
propyl acetate	ACGIH TLV (United States, 3/2015).
	STEL: 1040 mg/m ³ 15 minutes.
	STEL: 250 ppm 15 minutes.
	TWA: 835 mg/m ³ 8 hours.
	TWA: 200 ppm 8 hours.
	NIOSH REL (United States, 10/2013).
	STEL: 1050 mg/m ³ 15 minutes.
	STEL: 250 ppm 15 minutes.
	TWA: 840 mg/m ³ 10 hours. TWA: 200 ppm 10 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 840 mg/m ³ 8 hours.
	TWA: 200 ppm 8 hours.
	OSHA PEL 1989 (United States, 3/1989).
	STEL: 1050 mg/m ³ 15 minutes.
	STEL: 250 ppm 15 minutes.
	TWA: 840 mg/m ³ 8 hours.
	TWA: 200 ppm 8 hours.
1-methoxy-2-propanol	ACGIH TLV (United States, 3/2015).
	STEL: 369 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 184 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	NIOSH REL (United States, 10/2013).
	STEL: 540 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 360 mg/m ³ 10 hours.
	TWA: 100 ppm 10 hours.
	OSHA PEL 1989 (United States, 3/1989).
	STEL: 540 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 360 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.

Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
	 Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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 : 7/24/2018

Section 8. Exposure controls/personal protection

Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

<u>Appearance</u>

<u>Appearance</u>		
Physical state	1	Liquid.
Color	1	Clear. Colorless.
Odor	1	Pleasant, ester-like.
Odor threshold	1	Not available.
рН	1	Not available.
Melting point	:	Not available.
Boiling point	1	82°C (179.6°F)
Flash point	1	Closed cup: 12°C (53.6°F) [Tagliabue.]
Evaporation rate	1	<1 (butyl acetate = 1)
Flammability (solid, gas)	1	Not available.
Lower and upper explosive (flammable) limits	1	Not available.
Vapor pressure	:	4.4 kPa (33 mm Hg) [room temperature]
Vapor density	:	>1 [Air = 1]
Relative density	1	Not available.
Solubility	:	Not available.
Solubility in water	1	Not applicable.
Partition coefficient: n- octanol/water	1	Not available.
Auto-ignition temperature	1	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Not available.
Flow time (ISO 2431)	:	Not available.

Section 10. Stability and reactivity

Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Chemical stability	: The product is stable.
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.

Section 11. Toxicological information

Information on toxicological effects

Ac	ute	tox	citv
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Product/ingredient name	Result	Species	Dose	Exposure
Isopropyl alcohol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
hexamethyldisiloxane	LC50 Inhalation Gas.	Rat	15956 ppm	4 hours
propyl acetate	LD50 Oral	Rat	9370 mg/kg	-
1-methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
y 1 1	LD50 Oral	Rat	6600 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Isopropyl alcohol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
hexamethyldisiloxane	Eyes - Mild irritant	Rabbit	-	24 hours 100 microliters	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
propyl acetate	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
1-methoxy-2-propanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Section 11. Toxicological information

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Classification						
Product/ingredient name	OSHA	IARC	NTP			
Isopropyl alcohol	-	3	-			
Reproductive toxicity						
Not available.						
<u>Teratogenicity</u> Not available.						
Specific target organ toxic Not available.	ity (single ex	<u>oosure)</u>				
Specific target organ toxic Not available.	ity (repeated	<u>exposure)</u>	1			
Aspiration hazard Not available.						
Information on the likely routes of exposure	: Not avail	able.				
Potential acute health effect	<u>.s</u>					
Eye contact	: Causes s	erious eye	irritation.			
Inhalation	: Can cause central nervous system (CNS) depression.					
Skin contact	: No know	n significar	nt effects or critic	al hazards.		
Ingestion	: Do not in	gest. If swa	allowed then see	k immediate medica	al assistance.	
Symptoms related to the ph	<u>ysical, chemi</u>	cal and to	xicological cha	racteristics		
Eye contact	: Adverse pain or in watering redness		may include the	following:		
Inhalation	nausea o headache	r vomiting e ss/fatigue /vertigo	may include the	following:		
Skin contact	: No speci	fic data.				
Ingestion			may include the dical attention.	following:		
Delayed and immediate effe	cts and also	<u>chronic ef</u>	fects from shor	t and long term ex	posure	
Short term exposure						
Potential immediate effects	: Not availa	able.				
Potential delayed effects	: Not availa	able.				
Long term exposure						
Potential immediate effects	: Not avail	able.				
Potential delayed effects	: Not availa	able.				
Potential chronic health ef Not available.	fects					
General	: No know	n significar	nt effects or critic	al hazards.		
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Section 11. Toxicological information

Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	7821.4 mg/kg
Inhalation (gases)	58239.4 ppm

Section 12. Ecological information

<u>I OXICITY</u>					
Product/ingredient name	Result	Species	Exposure		
Isopropyl alcohol	Acute LC50 1400000 to 1950000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours		
propyl acetate	Acute LC50 4200 mg/l Fresh water Acute LC50 60000 to 64000 µg/l Fresh water	Fish - Rasbora heteromorpha Fish - Pimephales promelas	96 hours 96 hours		

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Isopropyl alcohol	0.05	-	low
hexamethyldisiloxane	5.3	1290 to 2410	high
propyl acetate	1.4	-	low
1-methoxy-2-propanol	<1	-	low

<u>Mobility in soil</u>

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact

Section 13. Disposal considerations

with soil, waterways, drains and sewers.

Section 14. Transport information

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	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	ΙΑΤΑ
UN number	-	-	-	UN1993	UN1993	UN1993
UN proper shipping name	Consumer commodity ORM-D	Consumer commodity ORM-D	Consumer commodity ORM-D	FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.
Transport hazard class(es)	ORM-D	ORM-D	ORM-D	3	3	3
Packing group	-	-	-	11	11	II
Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	Use ORM-D Label	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2. 18-2.19 (Class 3).	-	<u>Special</u> <u>provisions</u> 640 (C) <u>Tunnel code</u> (D/E)	-	-

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL and the IBC Code

Section 15. Regulatory information

U.S. Federal regulations	: TSCA 8(a) PAIR: hexamethyldisiloxane
	TSCA 8(a) CDR Exempt/Partial exemption: Not determined
	United States inventory (TSCA 8b): All components are listed or exempted.
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed

Section 15. Regulatory information

DEA List II Chemicals (Essential Chemicals)

: Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification

: Fire hazard

Immediate (acute) health hazard

Composition/information on ingredients

Name	%	hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Isopropyl alcohol	≥50 - ≤75	Yes.	No.	No.	Yes.	No.
hexamethyldisiloxane	≥25 - ≤50	Yes.	No.	No.	Yes.	No.
propyl acetate	≤10	Yes.	No.	No.	Yes.	No.
1-methoxy-2-propanol	≤5	Yes.	No.	No.	Yes.	No.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Isopropyl alcohol	67-63-0	≥50 - ≤75
Supplier notification	Isopropyl alcohol	67-63-0	≥50 - ≤75

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts	: The following components are listed: ISOPROPYL ALCOHOL; 2-PROPANOL; N- PROPYL ACETATE; PROPYL ACETATE; PROPYLENE GLYCOL METHYL ETHER; PROPYLENE GLYCOL MONOMETHYL ETHER
New York	: None of the components are listed.
New Jersey	 The following components are listed: ISOPROPYL ALCOHOL; 2-PROPANOL; n- PROPYL ACETATE; ACETIC ACID, PROPYL ESTER; PROPYLENE GLYCOL MONOMETHYL ETHER; 1-METHOXY-2-PROPANOL
Pennsylvania	 The following components are listed: ISOPROPYL ALCOHOL MANUFACTURE (STRONG-ACID PROCESS); ACETIC ACID, PROPYL ESTER; 2-PROPANOL, 1-METHOXY-

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.
Montreal Protocol (Annexes A, B, C, E) Not listed.
Stockholm Convention on Persistent Organic Pollutants Not listed.
Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

International lists

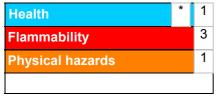
National inventory

Section 15. Regulatory information

Australia	: All components are listed or exempted.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Europe	: All components are listed or exempted.
Japan	: Japan inventory (ENCS): All components are listed or exempted. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Turkey	: All components are listed or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

	Classifi	Justification			
FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A			On basis of test data Calculation method		
History					
Date of printing	: 7/24/2018				
Date of issue/Date of revision	: 7/24/2018				
Date of previous issue	: 7/24/2018				
Version	: 2				
Date of issue/Date of revision	: 7/24/2018	Date of previous issue	: 7/24/2018	Version : 2 12	2/13

Section 16. Other information

Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	: Not available.

✓ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.