SAFETY DATA SHEET

1. Product and Company Identification

Product identifier	**Gas Leak Detector (4180-53, 4832-C9)**
Other means of identification	Not available
Recommended use	Gas Leak Detector
Recommended restrictions	None known.
Manufacturer information	Nu-Calgon 2008 Altom Court St. Louis, MO 63146 US Phone: 314-469-7000 / 800-554-5499 Emergency Phone: 1-800-424-9300 (CHEMTREC)
Supplier	See above.

2. Hazards Identification

Physical hazards	Flammable liquids	Category 3
Health hazards	Serious eye damage/eye irritation	Category 2
	Carcinogenicity	Category 2
Environmental hazards	Not classified.	
WHMIS 2015 defined hazards	Not classified	

Label elements

Signal word	Warning
Hazard statement	Flammable liquid and vapor. Causes serious eye irritation. Suspected of causing cancer.
Precautionary statement	
Prevention	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Wash thoroughly after handling. 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.
Response	In case of fire: Use appropriate media to extinguish. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention.
Storage	Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)	None known
WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)	None known
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/Information on Ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	%
Glycerol		56-81-5	30-60
Polyethylene glycol		25322-68-3	10-30

Chemical name	Common name and synonyms	CAS number	%
Isopropanol		67-63-0	3-7
Sulfuric acid, monododecyl ester, compd. with 2,2'',2''''-nitrilotris[ethanol] (1:1)		139-96-8	1-5
Amides, coco, N,N-bis(hydroxyethyl)		68603-42-9	0.5-1.5
Ethanol, 2,2''-iminobis-		111-42-2	0.1-1

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

4. First Aid Measures

Inhalation If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

Skin contact IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Never give anything by mouth if victim is unconscious, or is convulsing.

Most important symptoms/effects, acute and delayed Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Indication of immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Keep away from sources of ignition. No smoking. Avoid contact with eyes, skin and clothing. Take off all contaminated clothing immediately. Wash contaminated clothing before reuse. Wear rubber gloves and safety glasses with side shields. Keep out of reach of children.

5. Fire Fighting Measures

Suitable extinguishing media Foam. Water fog. Carbon dioxide (CO2).

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. Firefighters should wear a self-contained breathing apparatus.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards Flammable liquid and vapor.

Hazardous combustion products May include and are not limited to: Oxides of nitrogen. Hydrogen chloride. Oxides of carbon.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Never return spills in original containers for re-use. Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water. Prevent entry into waterways, sewer, basements or confined areas. Use water spray to reduce vapors or divert vapor cloud drift. For waste disposal, see section 13 of the SDS.

Environmental precautions Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

Precautions for safe handling Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Vapors may form explosive mixtures with air. Avoid breathing vapors or mists of this product. Use only with adequate ventilation. Avoid prolonged exposure. Wear appropriate personal protective equipment. Avoid contact with eyes, skin and clothing. When using do not eat or drink. Wash thoroughly after handling. Keep container tightly closed.

Conditions for safe storage, including any incompatibilities Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Keep out of reach of children. Store locked up. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure Controls/Personal Protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Glycerol (CAS 56-81-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Isopropanol (CAS 67-63-0)	PEL	980 mg/m3	
		400 ppm	

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Ethanol, 2,2''-iminobis- (CAS 111-42-2)	TWA	1 mg/m3	Inhalable fraction and vapor.
Isopropanol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Ethanol, 2,2''-iminobis- (CAS 111-42-2)	TWA	15 mg/m3
		3 ppm
Isopropanol (CAS 67-63-0)	STEL	1225 mg/m3
		500 ppm
	TWA	980 mg/m3
		400 ppm

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value	Form
Polyethylene glycol (CAS 25322-68-3)	TWA	10 mg/m3	Particulate.

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Isopropanol (CAS 67-63-0)	40 mg/L	Acetone	Urine	*

* - For sampling details, please see the source document.

Exposure guidelines

Canada - Alberta OELs: Skin designation

1,3-Dichloropropene (CAS 542-75-6)	Can be absorbed through the skin.
Ethanol, 2,2''-iminobis- (CAS 111-42-2)	Can be absorbed through the skin.
Methanol (CAS 67-56-1)	Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

1,3-Dichloropropene (CAS 542-75-6)	Can be absorbed through the skin.
Ethanol, 2,2''-iminobis- (CAS 111-42-2)	Can be absorbed through the skin.
Methanol (CAS 67-56-1)	Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation

1,3-Dichloropropene (CAS 542-75-6)	Can be absorbed through the skin.

Ethanol, 2,2''-iminobis- (CAS 111-42-2)	Can be absorbed through the skin.
Methanol (CAS 67-56-1)	Can be absorbed through the skin.

Canada - Ontario OELs: Skin designation

1,3-Dichloropropene (CAS 542-75-6)	Can be absorbed through the skin.
Ethanol, 2,2''-iminobis- (CAS 111-42-2)	Can be absorbed through the skin.
Methanol (CAS 67-56-1)	Can be absorbed through the skin.

Canada - Quebec OELs: Skin designation

1,3-Dichloropropene (CAS 542-75-6)	Can be absorbed through the skin.
Ethanol, 2,2''-iminobis- (CAS 111-42-2)	Can be absorbed through the skin.
Methanol (CAS 67-56-1)	Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation

1,3-Dichloropropene (CAS 542-75-6)	Can be absorbed through the skin.
Ethanol, 2,2''-iminobis- (CAS 111-42-2)	Can be absorbed through the skin.
Methanol (CAS 67-56-1)	Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

1,3-Dichloropropene (CAS 542-75-6)	Can be absorbed through the skin.
Ethanol, 2,2''-iminobis- (CAS 111-42-2)	Can be absorbed through the skin.
Methanol (CAS 67-56-1)	Can be absorbed through the skin.

US. NIOSH: Pocket Guide to Chemical Hazards

1,3-Dichloropropene (CAS 542-75-6)	Can be absorbed through the skin.
Methanol (CAS 67-56-1)	Can be absorbed through the skin.

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical goggles are recommended.

Skin protection

Hand protection Rubber gloves. Confirm with a reputable supplier first.

Other As required by employer code.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards Not applicable.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and Chemical Properties

Appearance	Liquid
Physical state	Liquid.
Form	Liquid.
Color	Clear
Odor	Isopropanol
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	unknown
Pour point	Not available.
Specific gravity	1.1 - 1.15
Partition coefficient (n-octanol/water)	Not available.
Flash point	102.2 °F (39.0 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.

Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and Reactivity

Reactivity	The product is stable and non reactive under normal conditions of use, storage and transport.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Do not mix with other chemicals.
Incompatible materials	Strong oxidizing agents. Isocyanates. Chlorine.
Hazardous decomposition products	May include and are not limited to: Oxides of nitrogen. Hydrogen chloride. Oxides of carbon.

11. Toxicological Information

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.
Inhalation	Prolonged inhalation may be harmful.
Skin contact	May cause irritation.
Eye contact	Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute toxicity

Components	**Species**	**Test Results**
Amides, coco, N,N-bis(hydroxyethyl) (CAS 68603-42-9)		
Acute		
Dermal		
LD50	Rabbit	1220 mg/kg
Inhalation		
LC50	Not available	
Oral		
LD50	Rat	2700 mg/kg
Ethanol, 2,2''-iminobis- (CAS 111-42-2)		
Acute		
Dermal		
LD50	Rabbit	11.9 ml/kg
Inhalation		
LC50	Not available	
Oral		
LD50	Rat	1600 mg/kg
		710 mg/kg
Glycerol (CAS 56-81-5)		
Acute		
Dermal		
LD50	Rabbit	> 10000 mg/kg

Components	Species	Test Results
		23000 mg/kg
Inhalation		
LC50	Rat	> 570 mg/m3, 1 Hours
		> 143 mg/m³, 4 Hours
Oral		
LD50	Mouse	23000 mg/kg
	Rat	> 12600 mg/kg
		27200 mg/kg

Isopropanol (CAS 67-63-0)

Acute		
Dermal		
LD50	Rabbit	12800 mg/kg
Inhalation		
LC50	Rat	16970 mg/l/4h
Oral		
LD50	Dog	4797 mg/kg
	Mouse	3600 mg/kg
	Rabbit	5030 mg/kg
	Rat	4396 mg/kg

Polyethylene glycol (CAS 25322-68-3)

Acute		
LC50	Not available	
Dermal		
LD50	Rabbit	20000 mg/kg
Oral		
LD50	Guinea pig	19600 mg/kg
	Rat	27500 mg/kg

Sulfuric acid, monododecyl ester, compd. with 2,2",2""-nitrilotris[ethanol] (1:1) (CAS 139-96-8)

Acute		
Inhalation		
LC50	Not available	
Oral		
LD50	Rat	> 2000 mg/kg

Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Exposure minutes	Not available.
Erythema value	Not available.
Oedema value	Not available.
Serious eye damage/eye irritation	Causes serious eye irritation.
Corneal opacity value	Not available.
Iris lesion value	Not available.
Conjunctival reddening value	Not available.
Conjunctival oedema value	Not available.
Recover days	Not available.
Respiratory or skin sensitization	Not available.

ACGIH sensitization

Formaldehyde (CAS 50-00-0)	Dermal sensitization Respiratory sensitization

Respiratory sensitization	Not available.
Skin sensitization	This product is not expected to cause skin sensitization.
Mutagenicity	Not classified.

Carcinogenicity Contains potential carcinogens.

IARC Monographs. Overall Evaluation of Carcinogenicity

1,3-Dichloropropene (CAS 542-75-6)	Volume 41, Supplement 7, Volume 71 - 2B Possibly carcinogenic to humans.
Amides, coco, N,N-bis(hydroxyethyl) (CAS 68603-42-9)	Volume 101 - 2B Possibly carcinogenic to humans.
Ethanol, 2,2'',2'''-nitrilotris- (CAS 102-71-6)	Volume 77 - 3 Not classifiable as to carcinogenicity to humans.
Ethanol, 2,2''-iminobis- (CAS 111-42-2)	Volume 77, Volume 101 - 2B Possibly carcinogenic to humans.
Formaldehyde (CAS 50-00-0)	Volume 88, Volume 100F 1 Carcinogenic to humans.
Methylene chloride (CAS 75-09-2)	Volume 71, Volume 110 - 2A Probably carcinogenic to humans.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

1,3-Dichloropropene (CAS 542-75-6)
Amides, coco, N,N-bis(hydroxyethyl) (CAS 68603-42-9)
Ethanol, 2,2''-iminobis- (CAS 111-42-2)
Formaldehyde (CAS 50-00-0)
Methylene chloride (CAS 75-09-2)

US NTP Report on Carcinogens: Anticipated carcinogen

1,3-Dichloropropene (CAS 542-75-6)	Reasonably Anticipated to be a Human Carcinogen.
Methylene chloride (CAS 75-09-2)	Reasonably Anticipated to be a Human Carcinogen.

US NTP Report on Carcinogens: Known carcinogen

Formaldehyde (CAS 50-00-0)	Known To Be Human Carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Formaldehyde (CAS 50-00-0)	Cancer
Methylene chloride (CAS 75-09-2)	Cancer

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Teratogenicity Not classified.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not available.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological Information

Ecotoxicity See below

Ecotoxicological data

Components		Species	Test Results
Ethanol, 2,2''-iminobis- (CAS 111-42-2)			
Algae	IC50	Algae	7.8 mg/L, 72 Hours
Crustacea	EC50	Daphnia	55 mg/L, 48 Hours
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	100 mg/L, 96 hours
Glycerol (CAS 56-81-5)			
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	51000 - 57000 mg/L, 96 hours
Isopropanol (CAS 67-63-0)			
Algae	IC50	Algae	1000 mg/L, 72 Hours
Crustacea	EC50	Daphnia	13299 mg/L, 48 Hours
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/L, 96 hours
Polyethylene glycol (CAS 25322-68-3)			
Aquatic			
Fish	LC50	Atlantic salmon (Salmo salar)	> 1000 mg/L, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Mobility in general Not available.

Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

Transport of Dangerous Goods (TDG) Proof of Classification	In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue.

U.S. Department of Transportation (DOT)

Basic shipping requirements:

UN number	UN1993
Proper shipping name	Flammable liquids, n.o.s.
Technical name	Isopropanol
Hazard class	Limited Quantity - US
Packing group	III
Special provisions	B1, B52, IB3, T4, TP1, TP29
Packaging exceptions	150

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Technical name	Isopropanol
Hazard class	Limited Quantity - Canada
Packing group	III

IATA/ICAO (Air)

Basic shipping requirements:

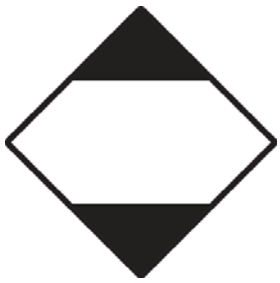
UN number	UN1993
Proper shipping name	Flammable liquid, n.o.s.
Technical name	Isopropanol
Hazard class	Limited Quantity - IATA
Packing group	III

IMDG (Marine Transport)

Basic shipping requirements:

UN number	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Technical name	Isopropanol
Hazard class	Limited Quantity - IMDG
Packing group	III

DOT; IMDG; TDG



IATA

15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Canada CEPA Schedule I: Listed substance

Formaldehyde (CAS 50-00-0)	Listed.
Methylene chloride (CAS 75-09-2)	Listed.

Canada NPRI VOCs with Additional Reporting Requirements: Listed substance/Identification Number

Formaldehyde (CAS 50-00-0)	Listed.
Isopropanol (CAS 67-63-0)	Listed.
Methanol (CAS 67-56-1)	Listed.

Canada Priority Substances List (Second List): Listed substance

Formaldehyde (CAS 50-00-0)	Listed.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS 2015 Exemptions Not applicable

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

1,3-Dichloropropene (CAS 542-75-6)	Listed.
Ethanol, 2,2''-iminobis- (CAS 111-42-2)	Listed.
Formaldehyde (CAS 50-00-0)	Listed.
Isopropanol (CAS 67-63-0)	Listed.
Methanol (CAS 67-56-1)	Listed.
Methylene chloride (CAS 75-09-2)	Listed.

US EPCRA Section 304 Extremely Haz. Subs. & CERCLA Haz. Subs.: Section 304 EHS reportable quantity

Formaldehyde (CAS 50-00-0)	100 LBS

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Formaldehyde (CAS 50-00-0)	Cancer
Methylene chloride (CAS 75-09-2)	Cancer
Formaldehyde (CAS 50-00-0)	Skin sensitization
Methylene chloride (CAS 75-09-2)	Heart
Formaldehyde (CAS 50-00-0)	Respiratory sensitization
Methylene chloride (CAS 75-09-2)	Central nervous system
Formaldehyde (CAS 50-00-0)	Eye irritation
Methylene chloride (CAS 75-09-2)	Liver
Formaldehyde (CAS 50-00-0)	Skin irritation
Methylene chloride (CAS 75-09-2)	Skin irritation
Formaldehyde (CAS 50-00-0)	respiratory tract irritation
Methylene chloride (CAS 75-09-2)	Eye irritation
Formaldehyde (CAS 50-00-0)	Acute toxicity
	Flammability

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance No

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Isopropanol	67-63-0	3-7

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

1,3-Dichloropropene (CAS 542-75-6)
Ethanol, 2,2''-iminobis- (CAS 111-42-2)
Formaldehyde (CAS 50-00-0)
Methanol (CAS 67-56-1)
Methylene chloride (CAS 75-09-2)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Formaldehyde (CAS 50-00-0)

Safe Drinking Water Act (SDWA) Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not listed.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

DEA Exempt Chemical Mixtures Code Number

Not regulated.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Glycerol (CAS 56-81-5)	Other Flavoring Substances with OSHA PEL's
Isopropanol (CAS 67-63-0)	Low priority

Food and Drug Administration (FDA) Not regulated.

US state regulations

US - California Hazardous Substances (Director's): Listed substance

1,3-Dichloropropene (CAS 542-75-6)	Listed.
Ethanol, 2,2''-iminobis- (CAS 111-42-2)	Listed.
Formaldehyde (CAS 50-00-0)	Listed.
Isopropanol (CAS 67-63-0)	Listed.
Methanol (CAS 67-56-1)	Listed.
Methylene chloride (CAS 75-09-2)	Listed.

US - Illinois Chemical Safety Act: Listed substance

1,3-Dichloropropene (CAS 542-75-6)
Ethanol, 2,2''-iminobis- (CAS 111-42-2)
Formaldehyde (CAS 50-00-0)
Isopropanol (CAS 67-63-0)
Methanol (CAS 67-56-1)
Methylene chloride (CAS 75-09-2)

US - Louisiana Spill Reporting: Listed substance

1,3-Dichloropropene (CAS 542-75-6)	Listed.
Ethanol, 2,2''-iminobis- (CAS 111-42-2)	Listed.
Formaldehyde (CAS 50-00-0)	Listed.
Isopropanol (CAS 67-63-0)	Listed.
Methanol (CAS 67-56-1)	Listed.
Methylene chloride (CAS 75-09-2)	Listed.

US - Michigan Critical Materials Register: Parameter number

Methylene chloride (CAS 75-09-2)	METHYLENE CHLORIDE

US - Minnesota Haz Subs: Listed substance

1,3-Dichloropropene (CAS 542-75-6)	Listed.
Ethanol, 2,2'',2''''-nitrilotris- (CAS 102-71-6)	Listed.
Ethanol, 2,2''-iminobis- (CAS 111-42-2)	Listed.
Formaldehyde (CAS 50-00-0)	Listed.
Glycerol (CAS 56-81-5)	Listed.
Isopropanol (CAS 67-63-0)	Listed.
Methanol (CAS 67-56-1)	Listed.
Methylene chloride (CAS 75-09-2)	Listed.
Polyethylene glycol (CAS 25322-68-3)	Listed.

US - New Jersey RTK - Substances: Listed substance

1,3-Dichloropropene (CAS 542-75-6)
Ethanol, 2,2",2""-nitrilotris- (CAS 102-71-6)
Ethanol, 2,2"-iminobis- (CAS 111-42-2)
Formaldehyde (CAS 50-00-0)
Glycerol (CAS 56-81-5)
Isopropanol (CAS 67-63-0)
Methanol (CAS 67-56-1)
Methylene chloride (CAS 75-09-2)

US - North Carolina Toxic Air Pollutants: Listed substance

Formaldehyde (CAS 50-00-0)
Methylene chloride (CAS 75-09-2)

US - Texas Effects Screening Levels: Listed substance

1,3-Dichloropropene (CAS 542-75-6)	Listed.
Amides, coco, N,N-bis(hydroxyethyl) (CAS 68603-42-9)	Listed.
Ethanol, 2,2",2""-nitrilotris- (CAS 102-71-6)	Listed.
Ethanol, 2,2"-iminobis- (CAS 111-42-2)	Listed.
Formaldehyde (CAS 50-00-0)	Listed.
Glycerol (CAS 56-81-5)	Listed.
Isopropanol (CAS 67-63-0)	Listed.
Methanol (CAS 67-56-1)	Listed.
Methylene chloride (CAS 75-09-2)	Listed.
Polyethylene glycol (CAS 25322-68-3)	Listed.

US - Washington Chemical of High Concern to Children: Listed substance

Formaldehyde (CAS 50-00-0)
Methylene chloride (CAS 75-09-2)

US. Massachusetts RTK - Substance List

1,3-Dichloropropene (CAS 542-75-6)
Ethanol, 2,2",2""-nitrilotris- (CAS 102-71-6)
Ethanol, 2,2"-iminobis- (CAS 111-42-2)
Formaldehyde (CAS 50-00-0)
Glycerol (CAS 56-81-5)
Isopropanol (CAS 67-63-0)
Methanol (CAS 67-56-1)
Methylene chloride (CAS 75-09-2)

US. New Jersey Worker and Community Right-to-Know Act

1,3-Dichloropropene (CAS 542-75-6)
Ethanol, 2,2"-iminobis- (CAS 111-42-2)
Formaldehyde (CAS 50-00-0)
Isopropanol (CAS 67-63-0)
Methanol (CAS 67-56-1)
Methylene chloride (CAS 75-09-2)

US. Pennsylvania RTK - Hazardous Substances

1,3-Dichloropropene (CAS 542-75-6)
Ethanol, 2,2",2""-nitrilotris- (CAS 102-71-6)
Ethanol, 2,2"-iminobis- (CAS 111-42-2)
Formaldehyde (CAS 50-00-0)
Glycerol (CAS 56-81-5)
Isopropanol (CAS 67-63-0)
Methanol (CAS 67-56-1)
Methylene chloride (CAS 75-09-2)

US. Rhode Island RTK

1,3-Dichloropropene (CAS 542-75-6)
Ethanol, 2,2"-iminobis- (CAS 111-42-2)
Formaldehyde (CAS 50-00-0)
Isopropanol (CAS 67-63-0)
Methanol (CAS 67-56-1)
Methylene chloride (CAS 75-09-2)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

1,3-Dichloropropene (CAS 542-75-6)	Listed: January 1, 1989
Amides, coco, N,N-bis(hydroxyethyl) (CAS 68603-42-9)	Listed: June 22, 2012
Ethanol, 2,2"-iminobis- (CAS 111-42-2)	Listed: June 22, 2012
Formaldehyde (CAS 50-00-0)	Listed: January 1, 1988
Methylene chloride (CAS 75-09-2)	Listed: April 1, 1988

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Methanol (CAS 67-56-1) Listed: March 16, 2012

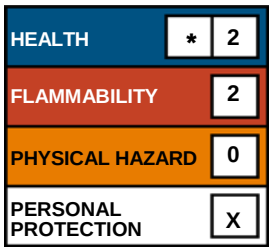
Inventory status

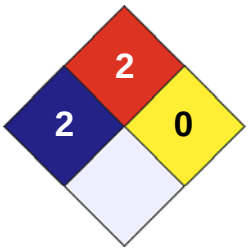
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Issue date 29-April-2016

Version # 01

Effective date 29-April-2016

Prepared by Nu-Calgon Technical Service Phone: (314) 469-7000

Other information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.