

## SAFETY DATA SHEET

	1. Product and Company Ident	ification		
Product identifier	Visual Defects 'Crack Finder' Heat Exchang	jer Leak Detector (4385-06, 4385-00)		
Other means of identification	Not available			
Recommended use	Heat Exchanger Leak Detection Solution			
Recommended restrictions	None known.			
Manufacturer/Importer/Supplier/D	Distributor information			
Manufacturer				
Company name	Nu-Calgon			
Address	2008 Altom Court			
	St. Louis, MO 63146			
	United States			
Telephone	314-469-7000 / 800-554-5499			
E-mail	info@nucalgon.com			
Emergency phone number	1-800-424-9300 (CHEMTREC)			
	2. Hazards Identification	1		
Physical hazards	Flammable liquids	Category 3		
Health hazards	Serious eye damage/eye irritation	Category 2A		
	Specific target organ toxicity, single exposure	Category 3 narcotic effects		
Environmental hazards	Not classified.			
OSHA defined hazards	Not classified.			
Label elements				
Signal word	Warning			
Signal word Hazard statement	5	eye irritation. May cause drowsiness or dizziness.		
Hazard statement Precautionary statement	Flammable liquid and vapor. Causes serious e			
Hazard statement	Flammable liquid and vapor. Causes serious e Keep away from heat/sparks/open flames/hot			
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Hazard statement Precautionary statement	Flammable liquid and vapor. Causes serious e Keep away from heat/sparks/open flames/hot Keep container tightly closed. Ground/bond container and receiving equipme Use explosion-proof electrical/ventilating/lighti	surfaces No smoking.		
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Hazard statement Precautionary statement Prevention Response	Flammable liquid and vapor. Causes serious e Keep away from heat/sparks/open flames/hot Keep container tightly closed. Ground/bond container and receiving equipme Use explosion-proof electrical/ventilating/lighti Use only non-sparking tools. Take precautionary measures against static di Wear protective gloves/eye protection/face pro Wash thoroughly after handling. Avoid breathing mist or vapor. Use only outdoors or in a well-ventilated area. If on skin (or hair): Take off immediately all con In case of fire: Use appropriate media to exting If in eyes: Rinse cautiously with water for seve easy to do. Continue rinsing. If eye irritation pe If inhaled: Remove person to fresh air and kee Call a poison center/doctor if you feel unwell. Store in a well-ventilated place. Keep container Keep cool.	surfaces No smoking. ent. ng equipment. scharge. otection. ntaminated clothing. Rinse skin with water/shower. guish. ral minutes. Remove contact lenses, if present and prsists: Get medical advice/attention. up comfortable for breathing.		
Hazard statement Precautionary statement Prevention Response Storage	<ul> <li>Flammable liquid and vapor. Causes serious e</li> <li>Keep away from heat/sparks/open flames/hot Keep container tightly closed.</li> <li>Ground/bond container and receiving equipmed Use explosion-proof electrical/ventilating/lighting Use only non-sparking tools.</li> <li>Take precautionary measures against static did Wear protective gloves/eye protection/face protection/face protection by after handling.</li> <li>Avoid breathing mist or vapor.</li> <li>Use only outdoors or in a well-ventilated area.</li> <li>If on skin (or hair): Take off immediately all continue rinsing. If eye irritation per lif in eyes: Rinse cautiously with water for severe easy to do. Continue rinsing. If eye irritation per lif inhaled: Remove person to fresh air and keep Call a poison center/doctor if you feel unwell.</li> <li>Store in a well-ventilated place. Keep container Keep cool.</li> <li>Store locked up.</li> </ul>	surfaces No smoking. ent. ng equipment. scharge. otection. ntaminated clothing. Rinse skin with water/shower. guish. ral minutes. Remove contact lenses, if present and ersists: Get medical advice/attention. up comfortable for breathing.		
Hazard statement Precautionary statement Prevention Response Storage Disposal	<ul> <li>Flammable liquid and vapor. Causes serious e</li> <li>Keep away from heat/sparks/open flames/hot Keep container tightly closed.</li> <li>Ground/bond container and receiving equipmed Use explosion-proof electrical/ventilating/lighti</li> <li>Use only non-sparking tools.</li> <li>Take precautionary measures against static di</li> <li>Wear protective gloves/eye protection/face protection by thoroughly after handling.</li> <li>Avoid breathing mist or vapor.</li> <li>Use only outdoors or in a well-ventilated area.</li> <li>If on skin (or hair): Take off immediately all cool in case of fire: Use appropriate media to exting if in eyes: Rinse cautiously with water for severe easy to do. Continue rinsing. If eye irritation per linhaled: Remove person to fresh air and keep Call a poison center/doctor if you feel unwell.</li> <li>Store in a well-ventilated place. Keep container Keep cool.</li> <li>Store locked up.</li> <li>Dispose of contents/container in accordance were and the severe and the seve</li></ul>	surfaces No smoking. ent. ng equipment. scharge. otection. ntaminated clothing. Rinse skin with water/shower. guish. ral minutes. Remove contact lenses, if present and prsists: Get medical advice/attention. p comfortable for breathing.		
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## 3. Composition/Information on Ingredients

Common name and synonyms	CAS number	%		
		70		
	67-63-0	20		
4 First Aid Massures				
4. First Aid Measures				
If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.				
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.				
in eyes: Rinse cautiously with water for sever asy to do. Continue rinsing. eye irritation persists: Get medical advice/atte		lenses, if present and		
inse mouth. If ingestion of a large amount doe		-		
ymptoms may include stinging, tearing, redne yes may cause temporary irritation. Vapors ha tigue, dizziness and nausea.				
rovide general supportive measures and treat nmediately. While flushing, remove clothes wh mbulance. Continue flushing during transport ymptoms may be delayed.	nich do not adhere to affecte	d area. Call an		
Ensure that medical personnel are aware of the material(s) involved, and take precau protect themselves. Take off all contaminated clothing immediately. Wash contaminated before reuse.				
5. Fii	re Fighting Measures			
ry chemical. Alcohol foam. Carbon dioxide.				
Do not use water jet as an extinguisher, as this will spread the fire.				
Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a sour of ignition and flash back. During fire, gases hazardous to health may be formed.				
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.				
In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can so without risk.				
Use standard firefighting procedures and consider the hazards of other involved materials.				
6. Accidental Release Measu	ures			
bill/leak. Eliminate all ignition sources (no smo /ear appropriate protective equipment and clo pontainers or spilled material unless wearing ap apors or mists. Ventilate closed spaces before	king, flares, sparks, or flame thing during clean-up. Do no ppropriate protective clothing entering them. Local autho	es in immediate area). ot touch damaged g. Avoid inhalation of rities should be advised		
recautionary measures against static discharg	e. Use only non-sparking to	ols. Keep combustibles		
preading. Use a non-combustible material like nd place into a container for later disposal. Pr	vermiculite, sand or earth to event entry into waterways,	o soak up the product		
mall Spills: Wipe up with absorbent material (e	e.g. cloth, fleece). Clean sur	face thoroughly to		
1 0	· ·	section 13 of the SDS.		
	o without risk. se standard firefighting procedures and consi- ammable liquid and vapor. <b>6. Accidental Release Measu</b> eep unnecessary personnel away. Keep out of poll/leak. Eliminate all ignition sources (no smot 'ear appropriate protective equipment and clo ontainers or spilled material unless wearing ap apors or mists. Ventilate closed spaces before significant spillages cannot be contained. For iminate all ignition sources (no smoking, flare eccautionary measures against static discharg wood, paper, oil, etc.) away from spilled mater arge Spills: Dike the spilled material, where the preading. Use a non-combustible material like and place into a container for later disposal. Pro- ponfined areas. Following product recovery, flu- mall Spills: Wipe up with absorbent material (move residual contamination. ever return spills to original containers for re-	be without risk. See standard firefighting procedures and consider the hazards of other invo- ammable liquid and vapor. <b>6. Accidental Release Measures</b> eep unnecessary personnel away. Keep out of low areas. Keep people aw poll/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flame (ear appropriate protective equipment and clothing during clean-up. Do no pontainers or spilled material unless wearing appropriate protective clothing apors or mists. Ventilate closed spaces before entering them. Local author isignificant spillages cannot be contained. For personal protection, see sec iminate all ignition sources (no smoking, flares, sparks, or flames in immere recautionary measures against static discharge. Use only non-sparking to wood, paper, oil, etc.) away from spilled material. Stop the flow of material arge Spills: Dike the spilled material, where this is possible. Cover with pla- breading. Use a non-combustible material like vermiculite, sand or earth to adverse into a container for later disposal. Prevent entry into waterways, onfined areas. Following product recovery, flush area with water. mall Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean sur-		

	7.	Handling and S	Storage	
Precautions for safe handling Conditions for safe storage,	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep cool. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Avoid contact with eyes, skin and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge			
ncluding any incompatibilities	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. Store away from incompatible materials (see Section 10 of the SDS).			
	8. Exposure	Controls/Pers	sonal Prote	ction
Occupational exposure limits				
US. OSHA Table Z-1 Limits				(also
Components	Туре	•		
Isopropanol (CAS 67-63-0)	PEL			980 mg/m3 400 ppm
	Veluee			
US. ACGIH Threshold Limit Components	Type		,	Value
Isopropanol (CAS 67-63-0)	STE		4	400 ppm
	TWA			200 ppm
US. NIOSH: Pocket Guide to	Chemical Hazards			
Components	Type		,	Value
Isopropanol (CAS 67-63-0)	STE	_		1225 mg/m3
			į	500 ppm
	TWA			980 mg/m3
			4	400 ppm
Biological limit values				
ACGIH Biological Exposure Components	Indices /alue	Determinant	Specimen	Sampling Time
Isopropanol (CAS 67-63-0)		Acetone	Urine	*
	5		Onne	
* - For sampling details, pleas				
Appropriate engineering controls				n. Provide eyewash station.
ndividual protection measures,			nt	
Eye/face protection	Chemical goggles a	are recommended.		
Skin protection Hand protection	Wear protective glo	NOS		
Other	Not available.	ves.		
Respiratory protection	Where exposure gu Respirator should b	e selected by and ng requirements fo	used under the und in OSHA's	use an approved NIOSH respirator. direction of a trained health and safety respirator standard (29 CFR 1910.134), protection (Z88.2).
Thermal hazards	Wear appropriate th			
General hygiene considerations		naterial and before	eating, drinking	sonal hygiene measures, such as washing g, and/or smoking. Routinely wash work inants.

Ģ	). F	Physi	ical a	and	Chemica	l Pro	opertie	S

Appearance	Translucent
Physical state	Liquid.
Form	Liquid.
Color	Fluorescent Green
Odor	Not available.
Odor threshold	Not available.
рН	Not available.

Melting point/freezing point	Not available.		
Initial boiling point and boiling range	205 °F (96.11 °C)		
Pour point	Not available.		
Specific gravity	0.98		
Partition coefficient (n-octanol/water)	Not available.		
Flash point	102.0 °F (38.9 °C) Tag Closed Cup		
Evaporation rate	Not available.		
Flammability (solid, gas)	Not applicable.		
Upper/lower flammability or exp	losive 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	2		
Relative density	Not available.		
Solubility(ies)	Complete		
Auto-ignition temperature	Not available.		
Decomposition temperature	Not available.		
Viscosity	Not available.		
	10. Stability and Read	tivity	
Reactivity	This product may react with strong oxidizing	ng agents.	
Possibility of hazardous reactions	No dangerous reaction known under cond	itions of normal use.	
Chemical stability	Material is stable under normal conditions		
Conditions to avoid	Avoid heat, sparks, open flames and other Avoid temperatures exceeding the flash p		
Incompatible materials	Strong oxidizing agents. Acetyl chloride.		
Hazardous decomposition products	May include and are not limited to: Oxides	s of carbon. Oxygen.	
	11. Toxicological Infor	mation	
Information on likely routes of e	xposure		
Ingestion	May cause stomach distress, nausea or ve	omiting.	
Inhalation	Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Prolonged inhalation may be harmful.		
Skin contact	No adverse effects due to skin contact are	expected.	
Eye contact	Causes serious eye irritation.		
Symptoms related to the physical, chemical and toxicological characteristics	Symptoms may include stinging, tearing, r overexposure may be headache, dizzines	redness, swelling, and blurred vision. Symptoms of s, tiredness, nausea and vomiting.	
Information on toxicological effe	ects		
Acute toxicity		ard for usual industrial or commercial handling by	
-	trained personnel.		
Components Isopropanol (CAS 67-63-0)	Species	Test Results	
Acute			
Dermal			
Dermal LD50	Rabbit	12800 mg/kg	
	Rabbit	12800 mg/kg	

Components	Species		Test Results		
Oral LD50	Dog		4797 mg/kg		
	Mouse		3600 mg/kg		
	Rabbit		5 g/kg		
	Rat				
Skin corrosion/irritation					
	-	skin contact may cause temporary irritati	011.		
Exposure minutes	Not availab				
Erythema value	Not availab				
Oedema value	Not availab				
Serious eye damage/eye rritation	Causes ser	ious eye irritation.			
Corneal opacity value	Not availab	le.			
Iris lesion value	Not availab	le.			
Conjunctival reddening value	Not availab	le.			
Conjunctival oedema value	Not availab	e.			
Recover days	Not availab	le.			
Respiratory or skin sensitizatio	n				
Respiratory sensitization	Not availab	le.			
Skin sensitization	This produc	t is not expected to cause skin sensitiza	ition.		
Germ cell mutagenicity		No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.			
Carcinogenicity	This produc	This product is not considered to be a carcinogen by IARC, NTP, or OSHA.			
	ulated Substa	ances (29 CFR 1910.1001-1050)			
Not listed.	This was does	4 :			
Reproductive toxicity	-	This product is not expected to cause reproductive or developmental effects.			
Specific target organ toxicity - single exposure	Narcotic eff	Narcotic effects.			
Specific target organ toxicity - repeated exposure	Not classifi	ed.			
Aspiration hazard	Not availab	le.			
Chronic effects	Prolonged i	nhalation may be harmful.			
Further information	Not availab	le.			
		12. Ecological Information			
Ecotoxicity	See below				
Components		Species	Test Results		
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		
Persistence and degradability	No data is a	available on the degradability of this proc	duct.		
Bioaccumulative potential	No data ava	ailable.			
Partition coefficient n-octa Isopropanol	nol / water (lo	<b>g Kow)</b> 0.05			
Mobility in soil	No data ava	ailable.			
Mobility in general	Not availab	le.			
	No other or	huaraa anuiran mantal affaata (a.a. azana	depletion photochemical around arout		

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	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	Dispose of in accordance with local regulations. 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.	Trans	port Ir	nformation
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U.S. Department of Transporta	
Basic shipping requireme	nts:
UN number	UN1993
Proper shipping name	Flammable liquid, n.o.s. (Isopropanol)
Hazard class	Limited Quantity
Packing group	III
Special provisions	B1, B52, IB3, T4, TP1, TP29
Packaging exceptions	150
Transportation of Dangerous (	Goods (TDG - Canada)
Basic shipping requirement	nts:
UN number	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S. (Isopropanol)
Hazard class	Limited Quantity
Packing group	
Special provisions	16
IATA/ICAO (Air)	
Basic shipping requirement	nts:
UN number	UN1993
Proper shipping name	Flammable liquid, n.o.s. (Isopropanol)
Hazard class	3
Packing group	III
IMDG (Marine Transport)	
Basic shipping requireme	nts:
UN number	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S. (Isopropanol)
Hazard class	3
Packing group	
DOT; TDG	
IATA; IMDG	

	15. Regula	atory Information	n
US federal regulations	This product is a "Hazardo Standard, 29 CFR 1910.12		ned by the OSHA Hazard Communication
	Notification (40 CFR 707, Se	ubpt. D)	
Not regulated. CERCLA Hazardous Subst	ance List (40 CFR 302.4)		
Isopropanol (CAS 67-63 US. OSHA Specifically Reg Not listed.	-0) ulated Substances (29 CFR	Listed. 1910.1001-1050)	
	oguthorization Act of 1096 (		
Superfund Amendments and R Hazard categories	Immediate Hazard - Yes Delayed Hazard - No 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	20
Other federal regulations			
Clean Air Act (CAA) Sectio	n 112 Hazardous Air Polluta	nts (HAPs) List	
	n 112(r) Accidental Release	Prevention (40 CFR	68.130)
Not regulated. Safe Drinking Water Act	Not regulated.		
(SDWA) Food and Drug Administration (FDA)	Not regulated.		
JS state regulations	5		ement Act of 1986 (Proposition 65): This material listed as carcinogens or reproductive toxins.
US - California Hazardo	ous Substances (Director's)	Listed substance	
Isopropanol (CAS 6	7-63-0)	Listed.	
Not listed.	ition 65 - Carcinogens & Rep	-	(CRT): Listed substance
US - Illinois Chemical S	Safety Act: Listed substance	•	
Isopropanol (CAS 6 <b>US - Louisiana Spill Re</b>	7-63-0) porting: Listed substance	Listed.	
lsopropanol (CAS 6 <b>US - Minnesota Haz Su</b>		Listed.	
Isopropanol (CAS 6 US - New Jersey RTK -	7-63-0) Substances: Listed substa	Listed. n <b>ce</b>	
Isopropanol (CAS 6 US. Massachusetts RT		Listed.	
Isopropanol (CAS 6 <b>US. Pennsylvania RTK</b>	7-63-0) - Hazardous Substances	Listed.	
Isopropanol (CAS 6 US. Rhode Island RTK	7-63-0)	Listed.	
Isopropanol (CAS 6	7-63-0)	Listed.	
Country(s) or region	Inventory name		On inventory (ves/no)

Country(s) or region Inventory name

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

On inventory (yes/no)\* Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

## 16. Other Information

LEGEND	HEALTH / 1
Severe4Serious3Moderate2Slight1Minimal0	FLAMMABILITY 2 PHYSICAL HAZARD 0 PERSONAL PROTECTION X
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	17-March-2014
Further information	For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

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

Prepared by