

SAFETY DATA SHEET

* Nu-Calgon			7692
	1. Product and Company Ide	entification	SDS REC'D by Trane February 14, 2018
Product identifier	Easy Seal Direct Inject (4050-08, 4050-07	7)	CHM01403
Other means of identification	Not available		CHM01413
Recommended use	Refrigerant leak sealant		
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 (CHEI	MTREC)	
Supplier	See above.		
	2. Hazards Identificat	tion	
Physical hazards	Flammable liquids	Category 3	
Health hazards	Skin corrosion/irritation	Category 1E	3
	Serious eye damage/eye irritation	Category 1	
	Sensitization, skin	Category 1	
	Specific target organ toxicity, repeated exposure	Category 2	
Environmental hazards	Not classified.		
WHMIS 2015 defined hazards	Not classified		
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Signal word	Danger		
Hazard statement	Flammable liquid and vapor. Causes sever skin reaction. May cause damage to organ		
Precautionary statement			
Prevention	Do not breathe mist or vapor. Wash thorou clothing/eye protection/face protection. Con the workplace. Keep away from heat, hot s sources. No smoking. Keep container tight equipment. Use explosion-proof electrical/v Take action to prevent static discharges.	ntaminated work urfaces, sparks, ly closed. Ground	clothing should not be allowed out of open flames and other ignition I and bond container and receiving
Response	In case of fire: Use appropriate media to extinguish. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. Specific treatment (see information on this label). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
Storage	Store locked up. Store in a well-ventilated	place. Keep cool.	
Disposal	Dispose of contents/container in accordance	ce with local/regio	onal/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.		

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3. Composition/Information on Ingredients

Chemical name	Common name and synonyms	CAS number	%
Methyl triethoxysilane		2031-67-6	30-60
1-Propanamine, 3-(triethoxysilyl)-	919-30-2	10-30
2-Butanone, O,O',O''-(methylsilylidyne)trioxime		22984-54-9	10-30
All concentrations are in percent by	y weight unless ingredient is a gas. Gas concer	ntrations are in percent by vol	ume.
Composition comments	US GHS: The exact percentage (concentration secret in accordance with paragraph (i) of §19		vithhe l d as a trade
	4. First Aid Measures		
Inhalation	IF INHALED: Remove person to fresh air and POISON CENTER/doctor.	keep comfortable for breathi	ing. Immediately call a
Skin contact	IF ON SKIN (or hair): Take off immediately all Immediately call a POISON CENTER/doctor. reuse. Specific treatment (see information on medical advice/attention.	Take off contaminated clothin	ng and wash it before
Eye contact	IF IN EYES: Rinse cautiously with water for s and easy to do. Continue rinsing. Immediately		
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT indu CENTER/doctor.	ice vomiting. Immediately cal	a POISON
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Prolonged exposure may cause chronic effects.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and tre	at symptomatically. Symptom	ns may be delayed.
General information	Take off all contaminated clothing immediatel label where possible). Ensure that medical per take precautions to protect themselves. Show Wash contaminated clothing before reuse. An children.	rsonnel are aware of the mat this safety data sheet to the	terial(s) involved, and doctor in attendance.
	5. Fire Fighting Measure	es	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carb		
Unsuitable extinguishing media media	Do not use water jet as an extinguisher, as th		
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a so of ignition and flash back. During fire, gases hazardous to health may be formed.		
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.		rn in case of fire.
Fire-fighting equipment/instructions	In case of fire and/or explosion do not breathers so without risk.	e fumes. Move containers fro	m fire area if you can do
Specific methods	Use standard firefighting procedures and con	sider the hazards of other inv	volved materials.
General fire hazards	Flammable liquid and vapor.		
Hazardous combustion products	May include and are not limited to: Oxides of	carbon. Oxides of nitrogen.	
	6. Accidental Release Meas	sures	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep per ignition sources (no smoking, flares, sparks, o protective equipment and clothing during clea damaged containers or spilled material unless closed spaces before entering them. Local au cannot be contained. For personal protection	or flames in immediate area). In-up. Do not breathe mist or s wearing appropriate protect thorities should be advised if	Wear appropriate vapor. Do not touch ive clothing. Ventilate

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Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, o combustibles (wood, paper, oil, etc.) away from spilled mat against static discharge. Use only non-sparking tools.	
	Large Spills: Stop the flow of material, if this is without risk. possible. Cover with plastic sheet to prevent spreading. Us vermiculite, sand or earth to soak up the product and place Following product recovery, flush area with water.	e a non-combustible material like
	Small Spills: Absorb with earth, sand or other non-combus for later disposal. Wipe up with absorbent material (e.g. clo remove residual contamination.	
Environmental precautions	Never return spills to original containers for re-use. For was Do not discharge into lakes, streams, ponds or public wate	
·	7. Handling and Storage	
Precautions for safe handling	Do not handle, store or open near an open flame, sources material from direct sunlight. When using do not smoke. Ex- ventilation. All equipment used when handling the product measures against static discharges. Use non-sparking tool not breathe mist or vapor. Do not get in eyes, on skin, or or protective equipment. Wash thoroughly after handling. Use handling this material. When using do not eat or drink.	xplosion-proof general and local exhaust must be grounded. Take precautionary Is and explosion-proof equipment. Do n clothing. Wear appropriate personal
Conditions for safe storage, including any incompatibilities	Store locked up. Keep away from heat, sparks and open fla build-up by using common bonding and grounding techniqu direct sunlight. Store in original tightly closed container. Sto area equipped with sprinklers. Keep out of reach of children	ues. Store in a cool, dry place out of ore in a well-ventilated place. Keep in an
	8. Exposure Controls/Personal Protection	
Occupational exposure limits	No exposure limits noted for ingredient(s).	
Biological limit values	No biological exposure limits noted for the ingredient(s).	
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour should be matched to conditions. If applicable, use process or other engineering controls to maintain airborne levels be exposure limits have not been established, maintain airborn	s enclosures, local exhaust ventilation, low recommended exposure limits. If
Individual protection measures,	such as personal protective equipment	
Eye/face protection	Wear safety glasses with side shields (or goggles) and a fa	ace shield.
Skin protection		
Hand protection	Impervious gloves. Confirm with reputable supplier first.	
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. 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. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.	
Thermal hazards	Not applicable.	
General hygiene considerations	When using do not smoke. Always observe good personal after handling the material and before eating, drinking, and clothing and protective equipment to remove contaminants be allowed out of the workplace.	/or smoking. Routinely wash work
	9. Physical and Chemical Properties	
Appearance	Clear	
Physical state	Liquid.	
Form	Liquid.	
Color	Blue	
Odor	Amine	
Odor threshold	Not available.	
рН	Not available.	
Melting point/freezing point	Not available.	
Initial boiling point and boiling range	Not available.	
Pour point	Not available.	
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Specific gravity	Not available.	7092	
Partition coefficient (n-octanol/water)	Not available.		
Flash point	107.6 °F (42.0 °C) Closed Cup		
Evaporation rate	Not available.		
Flammability (solid, gas)	Not applicable.		
Upper/lower flammability or exp			
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.		
Other information			
Explosive properties	Not explosive.		
Oxidizing properties	Not oxidizing.		
	10. Stability and Rea	ctivity	
Reactivity	This product may react with strong oxidiz	ing agents.	
Possibility of hazardous reactions	No dangerous reaction known under con	ditions of normal use.	
Chemical stability	Material is stable under normal 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.		
Hazardous decomposition products	May include and are not limited to: Oxide	s of carbon. Oxides of nitrogen.	
	11. Toxicological Infor	rmation	
Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.		
Information on likely routes of e	xposure		
Ingestion	Causes digestive tract burns. May cause	stomach distress, nausea or vomiting.	
Inhalation	May cause damage to organs through pr irritation to the respiratory system.	olonged or repeated exposure by inhalation. May cause	
Skin contact	Causes severe skin burns. May cause ar	n allergic skin reaction.	
Eye contact	Causes serious eye damage.		
Symptoms related to the physical, chemical and toxicological characteristics		amage. Causes serious eye damage. Symptoms may g, and blurred vision. Permanent eye damage including	
Information on toxicological effe	ects		
Acute toxicity	May cause an allergic skin reaction.		
Components	Species	Test Results	
1-Propanamine, 3-(triethoxysilyl)-	(CAS 919-30-2)		
Acute			
Dermal LD50	Rabbit 4	ml/kg, ECHA	
Inhalation			
LC50	Rat	> 7.4 mg/L, ECHA	

		760	
Components	Species	Test Results	
Oral			
LD50 Ra	t	1780 mg/kg, SIGMA ALDRICH	
		4.2 ml/kg, ECHA	
2-Butanone, O,O',O''-(methylsilylidy	yne)trioxime (CAS 22984-54-9)		
Acute			
Dermal			
LD50	Rat > 2000 mg/kg, ECHA		
Oral	Det	2650 mg/kg CCHA fomolo	
LD50	Rat	2650 mg/kg, ECHA, female	
		2260 mg/kg, ECHA, male	
Wethyl triethoxysilane (CAS 2031-6	57-6)		
Acute			
<i>Dermal</i> LD50	Rabbit	> 14240 mg/kg, ECHA, female	
ED30	Nabbit		
		11837 mg/kg, ECHA, male	
Inhalation LC50	Not available		
<i>Oral</i> LD50	Rat	10057 mg/kg, ECHA, male	
2030	Nat		
		7627 mg/kg, ECHA, female	
Skin corrosion/irritation	Causes severe skin burns and eye damage.		
Exposure minutes	Not available.		
Erythema value	Not available.		
Oedema value	Not available.		
Serious eye damage/eye rritation	Causes serious eye damage.		
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			
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	May cause an allergic skin reaction.		
Mutagenicity	No data available to indicate product or any compor mutagenic or genotoxic.	ents present at greater than 0.1% are	
Carcinogenicity			
US. OSHA Specifically Regu Not listed.	lated Substances (29 CFR 1910.1001-1050)		
Reproductive toxicity	This product is not expected to cause reproductive of	r developmental effects.	
Teratogenicity	Not available.		
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or	repeated exposure.	
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	May cause damage to organs through prolonged or	repeated exposure.	
	12. Ecological Information		
Ecotoxicity	Not available.		
Persistence and degradability	No data is available on the degradability of this prod	uct.	
Bioaccumulative potential	No data available.		
Mobility in soil	No data available.		
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 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.

 Image: Disposal instructions
 Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

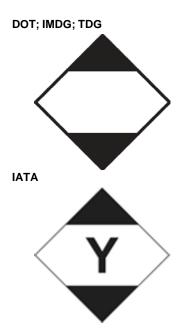
14. Transport Information

Transport of Dangerous Goods
(TDG) Proof of ClassificationIn 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)

U.S. Department of Transportation (DOT)				
Basic shipping requirements	Basic shipping requirements:			
UN number	UN2920			
Proper shipping name	Corrosive liquids, flammable, n.o.s.			
Technical name	1-Propanamine, 3-(triethoxysilyl)-			
Technical name	Methyl triethoxysilane			
Hazard class	Limited Quantity - US			
Packing group	II			
Special provisions	B2, IB2, T11, TP2, TP27			
Packaging exceptions	154			
Packaging non bulk	203			
Packaging bulk	242			
Transportation of Dangerous Go	ods (TDG - Canada)			
Basic shipping requirements	s:			
UN number	UN2920			
Proper shipping name	CORROSIVE LIQUID, FLAMMABLE, N.O.S.			
Technical name	1-Propanamine, 3-(triethoxysilyl)-			
Technical name	Methyl triethoxysilane			
Hazard class	Limited Quantity - Canada			
Packing group	Ш			
Special provisions	16			
IATA/ICAO (Air)				
Basic shipping requirements	S:			
UN number	UN2920			
Proper shipping name	Corrosive liquid, flammable, n.o.s.			
Technical name	1-Propanamine, 3-(triethoxysilyl)-			
Technical name	Methyl triethoxysilane			
Hazard class	Limited Quantity - IATA			
Packing group	Ш			
IMDG (Marine Transport)				
Basic shipping requirement	S:			
UN number	UN2920			
Proper shipping name	CORROSIVE LIQUID, FLAMMABLE, N.O.S.			
Technical name	1-Propanamine, 3-(triethoxysilyl)-			
Technical name	Methyl triethoxysilane			
Hazard class	Limited Quantity - IMDG			
Packing group	II			
EmS	F-E, S-C			

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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.	
Export Control List (CEPA 1	999, Schedule 3)	
Not listed.		
Greenhouse Gases		
Not listed.		
Precursor Control Regulation	ons	
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 Substa	Ince List (40 CFR 302.4)	
Not listed.		
US. OSHA Specifically Regu	ulated Substances (29 CFR 1910.1001-1050)	
Not listed.		
Superfund Amendments and Re	eauthorization 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) Not regulated.		
Other federal regulations		
_	n 112 Hazardous Air Pollutants (HAPs) List	
Not regulated.	n 112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated.		
US state regulations	See below	
US - Texas Effects Scre	eening Levels: Listed substance	
1-Propanamine, 3-(t	riethoxysilyl)- (CAS 919-30-2) Listed. 2- (methylsilylidyne)trioxime (CAS Listed.	

Methyl triethoxysiland US. Massachusetts RTK Not regulated. US. New Jersey Worker	- Substance List	Listed. t-to-Know Act	7692
Not regulated.	, , , , , , , , , , , , , , , , , , ,		
US. Pennsylvania Work	er and Community Rig	ht-to-Know Law	
Not listed. US. Rhode Island RTK			
Not regulated.			
US. California Proposition 6	5		
Not Listed.			
Inventory status			
Country(s) or region	Inventory name		On inventory (yes/no)*
Canada	Domestic Substances	s List (DSL)	Yes
Canada	Non-Domestic Substa	inces List (NDSL)	No
United States & Puerto Rico	Toxic Substances Cor	ntrol Act (TSCA) Inventory	Yes
*A "Yes" indicates that all compon	ents of this product comply	y with the inventory requirements	administered by the governing country(s)

16. Other Information

LEGEND Severe 4 Serious 3 Moderate 2	HEALTH * 2 FLAMMABILITY 2 PHYSICAL HAZARD 0
Slight 1 Minimal 0	PERSONAL X PROTECTION X
Disclaimer	The information in the sheet was written based on the best knowledge and experience currently available. 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	11-October-2016
Version #	01
Effective date	11-October-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.