

SAFETY DATA SHEET

	1. Product and Company Ide	entification	
Product identifier	Scale Inhibitor No. 340, Liquid (4340-01,	4340-05, 4340-08)	
Other means of identification	Not available		
Recommended use	Cooling Water Treatment		
Recommended restrictions	None known.		
Manufacturer information	Nu-Calgon 2611 Schuetz Road St. Louis, MO 63043 US Phone: 314-469-7000 / 800-554-5499 Emergency Phone: 1-800-424-9300 (CHEMTREC)		
Supplier	See above.		
	2. Hazards Identificat	tion	
Physical hazards	Not classified.		
Health hazards	Serious eye damage/eye irritation	Category 2	
	Reproductive toxicity	Category 1B	
	Specific target organ toxicity, repeated exposure	Category 2	
Environmental hazards	Not classified.		
WHMIS 2015 defined hazards	Not classified		
Label elements			
Signal word Hazard statement	Danger Causes serious eye irritation. May damage		y cause damage to
	organs through prolonged or repeated expo	osure by ingestion.	
Precautionary statement Prevention	Obtain special instructions before use. Do and understood. Wash thoroughly after har gloves, protective clothing and eye protecti	ndling. Do not breathe mist or va	
Response	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 attention. IF exposed or concerned: Get medical attention. Get medical attention if you feel unwell.		
Storage	Store locked up.		
Disposal	Dispose of container in accordance with local, regional, national and 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 or	n Ingredients	
Mixture			
Chemical name	Common name and synonyms	CAS number	%
	, , ,		

Chemical name	Common name and synonyms	CAS number	%
Phosphonic acid,[nitrilotris(methylene)]tris-, pentasodium salt		2235-43-0	15-40*
All concentrations are in percent by	v weight unless ingredient is a gas. Gas conce	ntrations are in percent by vol	ume.
Composition comments	US GHS: The exact percentage (concentration secret in accordance with paragraph (i) of §1 *CANADA GHS: The exact percentage (concentrate secret.	910.1200.	
	4. First Aid Measures	;	
Inhalation	If symptoms develop move victim to fresh air	. If symptoms persist, obtain r	nedical attention.
Skin contact	Flush with cool water. Wash with soap and w		
Eye contact	IF IN EYES: Rinse cautiously with water for s and easy to do. Continue rinsing. If eye irritat	everal minutes. Remove con	tact lenses, if present
Ingestion	Rinse mouth. Do not induce vomiting. If vomi reduce risk of aspiration. Never give anything Obtain medical attention.		
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include vision. Prolonged exposure may cause chron	stinging, tearing, redness, sw ic effects.	elling, and blurred
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and tre	at symptomatically. Symptom	s may be delayed.
General information	IF exposed or concerned: Get medical advice (show the label where possible). Ensure that involved and take precautions to protect then attendance. Avoid contact with eyes and skir	medical personnel are aware nselves. Show this safety data	of the material(s) a sheet to the doctor in
	5. Fire Fighting Measur	es	
Suitable extinguishing media	Alcohol resistant foam. Powder. Carbon diox	ide.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as th		
Specific hazards arising from the chemical	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	Move containers from fire area if you can do so without risk.		
Specific methods	Use standard firefighting procedures and cor	sider the hazards of other inv	olved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
Hazardous combustion products	May include and are not limited to: Oxides of	carbon.	
	6. Accidental Release Mea	sures	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep pe appropriate protective equipment and clothin not touch damaged containers or spilled mate Ensure adequate ventilation. Local authoritie contained. For personal protection, see section	g during clean-up. Do not bre erial unless wearing appropria s should be advised if signific	athe mist or vapor. Do the protective clothing.
Methods and materials for	Use water spray to reduce vapors or divert va		
containment and cleaning up	Large Spills: 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. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.		
	Small Spills: Wipe up with absorbent materia remove residual contamination.	I (e.g. cloth, fleece). Clean su	face thoroughly to
Environmental precautions	Never return spills to original containers for re Avoid discharge into drains, water courses or streams, ponds or public waters.		

	7. Handling and S	torage			
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Avoid contact with eyes. Pregnant or breastfeeding women must not handle this product. Provide adequate ventilation. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. When using do not eat or drink.				
Conditions for safe storage, ncluding any incompatibilities	Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.				
	8. Exposure Controls/Pers	onal Protection			
ccupational exposure limits					
Canada. Alberta OELs (Occ	upational Health & Safety Code, Sched	lule 1, Table 2)			
Components	Туре	Value			
Ethylene glycol (CAS 107-21-1)	Ceiling	100 mg/m3			
Canada. British Columbia C Safety Regulation 296/97, as	ELs. (Occupational Exposure Limits for s amended)	or Chemical Substances, Oo	ccupational Health and		
Components	Туре	Value	Form		
Ethylene glycol (CAS 107-21-1)	Ceiling	100 mg/m3	Aerosol.		
101 21 1)		50 ppm	Vapor.		
	STEL	20 mg/m3	Particulate.		
	TWA	10 mg/m3	Particulate.		
Canada. Manitoba OELs (Re Components	eg. 217/2006, The Workplace Safety An Type	d Health Act) Value	Form		
Ethylene glycol (CAS	STEL	10 mg/m3	Aerosol, inhalable.		
107-21-1)			Vapor fraction		
	TWA	50 ppm	Vapor fraction		
		25 ppm	Vapor fraction		
Canada. Ontario OELs. (Con Components	ntrol of Exposure to Biological or Cher Type	nical Agents) Value	Form		
Ethylene glycol (CAS	Ceiling	100 mg/m3	Aerosol.		
107-21-1)	Com.g	g,g			
Canada. Quebec OELs. (Mir Components	nistry of Labor - Regulation Respecting Type	the Quality of the Work En Value	vironment) Form		
Ethylene glycol (CAS	Ceiling	127 mg/m3	Vapor and mist.		
107-21-1)		50 ppm	Vapor and mist.		
Canada, Saskatchewan OFI	_s (Occupational Health and Safety Re				
Components	Туре	Value	Form		
Ethylene glycol (CAS 107-21-1)	Ceiling	100 mg/m3	Aerosol.		
US. ACGIH Threshold Limit					
Components	Туре	Value	Form		
Ethylene glycol (CAS 107-21-1)	STEL	10 mg/m3	Aerosol, inhalable.		
		50 ppm	Vapor fraction		
	TWA	25 ppm	Vapor fraction		
iological limit values	No biological exposure limits noted for	the ingredient(s).			
ppropriate engineering ontrols	Good general ventilation (typically 10 a should be matched to conditions. If app	ir changes per hour) should l blicable, use process enclosu	res, local exhaust ventilation,		
	or other engineering controls to mainta exposure limits have not been establish				

 Individual protection measures,
 such as personal protective equipment

 Eye/face protection
 Wear safety glasses with side shields (or goggles).

 Skin protection
 Impervious gloves. Confirm with reputable supplier first.

Other As required by employer code. Use of an impervious apron is recommended.

Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).
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. When using do not eat or drink.

	9. Physical and Chemical Properties
Appearance	Clear
Physical state	Liquid.
Form	Liquid.
Color	Pale yellow
Odor	Mild
Odor threshold	Not available.
рН	7.5 - 8.5
Melting point/freezing point	4.1 °F (-15.5 °C)
Initial boiling point and boiling range	Not available.
Pour point	Not available.
Specific gravity	Not available.
Partition coefficient (n-octanol/water)	Not available.
Flash point	Not available.
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	Not available.
Relative density	1.205 - 1.285
Solubility(ies)	Complete
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 Reactivity

Reactivity	This product may react with strong oxidizing agents.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Strong acids. Strong oxidizing agents. Strong bases.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Routes of exposure

Information on likely routes of everyIngestionMay cause stomach distress, nausea or vomiting.InhalationMay cause damage to organs through prolonged or repeated exposure by inhalation.Skin contactNo adverse effects due to skin contact are expected.Eye contactCauses serious eye irritation.Symptoms related to the
physical, chemical and
coxicological characteristicsSevere eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred
vision.Information on toxicological effectsSevere eye irritation. Symptoms may include stinging tearing redness, swelling, and blurred
vision.

Acute	toxicity
Acuto	LOAIGILY

Acute toxicity		
Components	Species	Test Results
Ethylene glycol (CAS 107-21-1)		
Acute		
Dermal LD50	Mouse	> 3500 mg/kg, ECHA
LD30		
	Rabbit	9530 mg/kg, HSDB
Inhalation		
LC50	Rat	> 2.5 mg/L, 6 Hours, ECHA
		2725 mg/m3, 4 hr, HSDB
Oral		
LD50	Cat	1670 mg/kg, CCID - New Zealand
		1650 mg/kg, HSDB
	Dog	> 8.8 g/kg, HSDB
		5500 mg/kg, HSDB
	Guinea pig	6600 mg/kg, CCOHS
		8.2 g/kg, HSDB
	Human	1110 - 1665 mg/kg, HSDB
	Mouse	14.6 g/kg, HSDB
	Rabbit	5000 mg/kg, CCOHS
	Rat	> 10000 mg/kg, ECHA
		7712 mg/kg, ECHA
		5.9 g/kg, HSDB
Phoenhonic acid Initrilatris/meth	ylene)]tris-, pentasodium salt (CAS 2235-43-0	
Acute)
Dermal		
LD50	Rabbit	> 15800 mg/kg, RTECS
Inhalation		
LC50	Not available	
Oral		
LD50	Duck	> 2510 mg/kg, RTECS
	Quail	> 2510 mg/kg, RTECS
	Rat	17800 mg/kg, RTECS
Skin corrosion/irritation	Prolonged skin contact may cause tempor	rary 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			
Recover days	Not availab	le.	
Respiratory or skin sensitization			
Canada - Alberta OELs: Irrit			
Ethylene glycol (CAS 10	, , ,		
Respiratory sensitization		ratory sensitizer.	
Skin sensitization	•	ct is not expected to cause s	
Mutagenicity	mutagenic	or genotoxic.	any components present at greater than 0.1% are
Carcinogenicity	See below.		
US. OSHA Specifically Reg Not listed.	ulated Substa	ances (29 CFR 1910.1001-1	050)
Reproductive toxicity	May damag	ge fertility or the unborn child	l.
Teratogenicity	Not availab	le.	
Specific target organ toxicity - single exposure	Not classifi	ed.	
Specific target organ toxicity - repeated exposure	May cause	damage to organs through p	prolonged or repeated exposure.
Aspiration hazard	Not an asp	iration hazard.	
Chronic effects	May cause	damage to organs through p	prolonged or repeated exposure.
		12. Ecological Infor	mation
Ecotoxicity	See below		
Ecotoxicological data Components		Species	Test Results
Ethylene glycol (CAS 107-21-1)		opecies	
Crustacea	EC50	Daphnia	46300 mg/L, 48 Hours
Aquatic			
Fish	LC50	Fathead minnow (Pimer	ohales promelas) 8050 mg/L, 96 hours
Persistence and degradability Bioaccumulative potential	No data is a	available on the degradability	/ of this product.
Mobility in soil			
Mobility in general	No data ava	ailable.	
Other adverse effects	Not availab	le.	
	No other ac	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation	
		13. Disposal Conside	erations
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		accordance with all applicab	
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		idues. This material and its o	ulations. Empty containers or liners may retain some container must be disposed of in a safe manner (see:
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	
		14. Transport Infor	mation
Transport of Dangerous Goods (TDG) Proof of Classification	Dangerous	Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.	
U.S. Department of Transportation			
Not regulated as dangerous g	5		
Transportation of Dangerous G Not regulated as dangerous g	-	Canada)	

Not regulated as dangerous goods.

	15. Regi	ulatory Informatio	n
Canadian federal regulations	This product has been cl contains all the informati		with the hazard criteria of the HPR and the SDS R.
Canada Priority Substance	s List (Second List): Liste	d substance	
Ethylene glycol (CAS 10		Listed.	
Export Control List (CEPA	1999, Schedule 3)		
Not listed. Greenhouse Gases			
Not listed.			
Precursor Control Regulat	ons		
Not regulated.			
VHMIS 2015 Exemptions	Not applicable		
JS federal regulations	This product is a "Hazard Standard, 29 CFR 1910.		ned by the OSHA Hazard Communication
TSCA Section 12(b) Export	Notification (40 CFR 707,	Subpt. D)	
All chemicals used are o	on the TSCA inventory.		
CERCLA Hazardous Subst	ance List (40 CFR 302.4)		
Ethylene glycol (CAS 10 US. OSHA Specifically Reg Not listed.		Listed. R 1910.1001-1050)	
Superfund Amendments and R	eauthorization Act of 1986	(SARA)	
Hazard categories	Immediate Hazard - Yes	· · ·	
nazara satogonoo	Delayed Hazard - Yes		
	Fire Hazard - No Pressure Hazard - No		
	Reactivity Hazard - No		
SARA 302 Extremely hazardous substance	No		
SARA 311/312 Hazardous chemical	No		
SARA 313 (TRI reporting)			
Chemicalname Ethylene glycol		CASnumber 107-21-1	<u>%bywt.</u> 10-30*
		107-21-1	10-50
Other federal regulations Clean Air Act (CAA) Sectio	n 112 Hazardous Air Pollu	tants (HΔPs) List	
Ethylene glycol (CAS 10		itants (HAFS) LIST	
Clean Air Act (CAA) Sectio		se Prevention (40 CFR	R 68.130)
Not regulated.			
JS state regulations	See below		
US - California Hazard	ous Substances (Director'	s): Listed substance	
Ethylene glycol (CA		Listed.	
	Safety Act: Listed substan	ice	
	porting: Listed substance		
Ethylene glycol (CA US - Minnesota Haz Su	bs: Listed substance	Listed.	
•	Substances: Listed subs	Listed. tance	
Ethylene glycol (CA US - Texas Effects Scr	eening Levels: Listed sub	stance	
Ethylene glycol (CA Phosphonic acid,[ni pentasodium salt (C	trilotris(methylene)]tris-,	Listed. Listed.	
		hildren: Listed substa	ance
US - Washington Chen			
US - Washington Chen Ethylene glycol (CA US. Massachusetts RT	S 107-21-1)		
Ethylene glycol (CA US. Massachusetts RT Ethylene glycol (CA	S 107-21-1) 'K - Substance List S 107-21-1)		
Ethylene glycol (CA US. Massachusetts RT Ethylene glycol (CA	S 107-21-1) ' K - Substance List	o-Know Act	

US. Pennsylvania Worker and Community Right-to-Know Law

Ethylene glycol (CAS 107-21-1)

US. Rhode Island RTK

Ethylene glycol (CAS 107-21-1)

US. California Proposition 65

WARNING: This product can expose you to chemicals including Ethylene glycol (ingested), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Listed: June 19, 2015

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

Ethylene glycol (CAS 107-21-1)

Inventory status

Country(s) or region	Inventory name C	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
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)		

LEGEND	HEALTH * 2
Severe4Serious3Moderate2Slight1Minimal0	FLAMMABILITY 0 PHYSICAL HAZARD 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.
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Effective date	08-November-2018
Prepared by	Dell Tech Laboratories Ltd. Phone: (519) 858-5021
Other information	For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

16. Other Information