

## SAFETY DATA SHEET

	1. Identification		
Product identifier	Hardness Solution #2		
Other means of identification	Not available.		
Recommended use	Water Testing Solution		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier	/Distributor information		
Manufacturer			
Company name Address	Pro Products LLC 6714 Pointe Inverness Way Suite 200 Fort Wayne IN 46804-7935 United States		
Telephone	260-483-2519		
E-mail	Not available.		
Emergency phone number	1-800-424-9300 (CHEMTREC)		
Supplier	See above.		
Supplier			
	2. Hazard identification	on	
Physical hazards	Not classified.		
Health hazards	Not classified.		
Environmental hazards	Not classified.		
WHMIS 2015 defined hazards	Not classified		
Label elements			
Hazard symbol	None.		
Signal word	None.		
Hazard statement	The mixture does not meet the criteria for cla	assification.	
Precautionary statement			
Prevention	Observe good industrial hygiene practices.		
Response	Wash hands after handling.		
Storage	Store away from incompatible materials.		
Disposal	Dispose of waste and residues in accordanc	e with local authority requireme	nts.
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	Not applicable.		
	3. Composition/Information on	ingredients	
Mixture			
Chemical name	Common name and synonyms	CAS number	%
Glycerol		56-81-5	30 - 60

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

ItsUS GHS: The exact percentage (concentration) of composition has been withheld as a trade<br/>secret in accordance with paragraph (i) of §1910.1200.<br/>CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade<br/>secret.

	4. First-aid measures
Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Skin contact	Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.
Eye contact	Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medica attention if irritation persists.
Ingestion	Do not induce vomiting. Never give anything by mouth if victim is unconscious or is convulsing. Obtain medical attention.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	If you feel unwell, seek medical advice (show the label where possible). Wear rubber gloves and safety glasses with side shields. Keep out of reach of children.
	5. Fire-fighting measures
Suitable extinguishing media	Treat for surrounding material.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Firefighters should wear a self-contained breathing apparatus.
Special protective equipment and precautions for firefighters	Firefighters should wear full protective clothing including self-contained breathing apparatus.
Fire-fighting equipment/instructions	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	No unusual fire or explosion hazards noted.
Hazardous combustion products	May include and are not limited to: Oxides of carbon.
	6. Accidental release measures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Do not touch or walk through spilled material. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk.
	Large Spills: 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. Use water spray to reduce vapors or divert vapor cloud drift. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS Prevent entry into waterways, sewers, basements or confined areas.
Environmental precautions	Do not discharge into lakes, streams, ponds or public waters.
	7. Handling and storage
Precautions for safe handling	Avoid prolonged exposure. Use good industrial hygiene practices in handling this material. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling.
Conditions for safe storage, including any incompatibilities	Store in a closed container away from incompatible materials. Keep out of reach of children.

	8. Exposure controls/Personal	protection	
Occupational exposure limits			
-	ccupational Health & Safety Code, Schedule 1		_
Components	Туре	Value	Form
Glycerol (CAS 56-81-5)	TWA	10 mg/m3	Mist.
Safety Regulation 296/97,	OELs. (Occupational Exposure Limits for Che as amended)		-
Components	Туре	Value	Form
Glycerol (CAS 56-81-5)	TWA	3 mg/m3 10 mg/m3	Respirable mist. Total mist
	Regulation 91-191, as amended		-
Components	Туре	Value	Form
Glycerol (CAS 56-81-5)	TWA	10 mg/m3	Mist.
-	linistry of Labor - Regulation respecting occu	-	• •
Components	Туре	Value	Form
Glycerol (CAS 56-81-5)	TWA	10 mg/m3	Mist.
Canada. Saskatchewan O Components	ELs (Occupational Health and Safety Regulati Type	ons, 2020. S-15.1 Re Value	g. 10. Table 18) Form
Glycerol (CAS 56-81-5)	15 minute	20 mg/m3	Mist.
	s for Air Contaminants (29 CFR 1910.1000)	Value	Form
Components	Туре		
Glycerol (CAS 56-81-5)	PEL	5 mg/m3 15 mg/m3	Respirable fraction. Total dust.
US. OSHA Table Z-3 (29 C	EP 1910 1000)	10 mg/ma	
Components	Туре	Value	Form
Glycerol (CAS 56-81-5)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
iological limit values	No biological exposure limits noted for the in	gredient(s).	
ppropriate engineering ontrols	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.		
ndividual protection measure	s, such as personal protective equipment		
Eye/face protection	Wear safety glasses with side shields.		
Skin protection			
Hand protection	Impervious gloves. Confirm with reputable s	upplier first.	
Other	Wear appropriate chemical resistant clothing	. As required by emplo	oyer code.
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 onsiderations	Wash hands before breaks and immediately good industrial hygiene and safety practice.		
	9. Physical and chemical pro	operties	
ppearance	Clear		
Physical state	Liquid.		

Appearance	Clear
Physical state	Liquid.
Form	Liquid
Color	Colorless
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.

Initial boiling point and boiling range	Not available.	
Specific gravity	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	Not available.	
Solubility(ies)	Not available.	
Partition coefficient (n-octanol/water)	Not available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Not available.	
Other information	Not available.	
Pour point	Not available.	
	10. Stability and reactivity	
Reactivity	This product may react with oxidizing agents.	
Possibility of hazardous reactions	Hazardous polymerization does not occur.	
Chemical stability	Stable under recommended storage conditions.	
Conditions to avoid	Do not mix with other chemicals.	
Incompatible materials	Strong oxidizing agents. Oxidizers.	
Hazardous decomposition products	May include and are not limited to: Oxides of carbo	n.
	11. Toxicological information	
Routes of exposure	Inhalation. Ingestion. Skin contact. Eye contact.	
Information on likely routes of e	xposure	
Ingestion	May cause stomach distress, nausea or vomiting.	
Inhalation	Prolonged inhalation may be harmful.	
Skin contact	No adverse effects due to skin contact are expected.	
Eye contact	Direct contact with eyes may cause temporary irritation.	
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irrita	
Information on toxicological effe	ects	
Acute toxicity		
Components	Species	Test Results
Glycerol (CAS 56-81-5)		
Acute		
Dermal		
LD50	Guinea pig	56750 mg/kg, ECHA
Inhalation LC50	Rat	275000 mg/m³, 4 hours, ECHA
Oral		·····
LD50	Rat	11500 mg/kg, ECHA
#20719	Dogo: 4 of 7	Issue date 30 April 2024

Skin corrosion/irritation	Prolonged skin contact may cause temporary irrit	tation.
Exposure minutes	Not available.	
Erythema value	Not available.	
Oedema value	Not available.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irr	ritation.
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 sensitizatio	'n	
Canada - Alberta OELs: Irri	tant	
Glycerol (CAS 56-81-5)	Irritant	
<b>Respiratory sensitization</b>	Not available.	
Skin sensitization	This product is not expected to cause skin sensit	ization.
Mutagenicity	No data available to indicate product or any comp mutagenic or genotoxic.	ponents present at greater than 0.1% are
Carcinogenicity	Not classified or listed by IARC, NTP, OSHA and	I ACGIH.
OSHA Specifically Regulate Not listed.	ed Substances (29 CFR 1910.1001-1052)	
Reproductive toxicity	This product is not expected to cause reproductiv	ve or developmental effects.
Teratogenicity	Non-hazardous by WHMIS/OSHA criteria.	
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
Glycerol (CAS 56-81-5)	opecies	
Aquatic		
Fish	LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss)	51000 - 57000 mg/L, 96 hours
Persistence and degradability	No data is available on the degradability of this p	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. ozo potential, endocrine disruption, global warming p	
	13. Disposal considerations	
Disposal instructions	Review federal, state/provincial, and local govern reclaim or dispose in sealed containers at license	
Local disposal regulations	Dispose in accordance with all applicable regulat	-
Hazardous waste code	The waste code should be assigned in discussion disposal company.	n between the user, the producer and the waste
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 approver Since emptied containers may retain product resi emptied.	
	Dogo: 5 of 7	leque data 30 April 2024

## 14. Transport information

	14. Transport information
Transport of Dangerous Goods (TDG) Proof of Classification	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	on (DOT)
Not regulated as dangerous go	pods.
Transportation of Dangerous Go	ods (TDG - Canada)
Not regulated as dangerous go	pods.
	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: Li	sted substance
Glycerol (CAS 56-81-5) Canada Priority Substances	Listed. List (Second List): Listed substance
Glycerol (CAS 56-81-5) Export Control List (CEPA 19	Listed. 999, Schedule 3)
Not listed. Greenhouse Gases	
Not listed. Precursor Control Regulatio	ns
Not regulated.	
WHMIS 2015 Exemptions	Not applicable
US federal regulations	This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
	Notification (40 CFR 707, Subpt. D)
Not regulated. CERCLA Hazardous Substar Not listed. SARA 304 Emergency releas	
Not regulated.	d Substances (29 CFR 1910.1001-1052)
	authorization Act of 1986 (SARA)
SARA 302 Extremely hazardous substance	No
SARA 311/312 Hazardous chemical	No
SARA 313 (TRI reporting) Not regulated.	
Other federal regulations	
Clean Air Act (CAA) Section	112 Hazardous Air Pollutants (HAPs) List
Not regulated. Clean Air Act (CAA) Section	112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.	
US state regulations	
US - Minnesota Haz Subs: Li	isted substance
Glycerol (CAS 56-81-5)	Listed.
US - Texas Effects Screening	g Levels: Listed substance
Glycerol (CAS 56-81-5) US. Massachusetts RTK - Su	Ibstance List
	Community Right-to-Know Act
-	d Community Right-to-Know Law
Glycerol (CAS 56-81-5) US. Rhode Island RTK	
Chronnel (CAC EC 04 E)	

Glycerol (CAS 56-81-5)

## US. California Proposition 65

This product is not subject to warning labeling under the California Proposition 65 regulation.

## Inventory status

Country(s) or region	Inventory name On invent	ory (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 / 1
Severe 4	FLAMMABILITY 0
Serious3Moderate2Slight1	PHYSICAL HAZARD 0 PERSONAL PERSONAL
Minimal 0	PROTECTION
Disclaimer	The data contained in this material safety data sheet was obtained from sources that were technically accurate, reliable, and state of the art when this document was prepared. If data was unavailable to complete certain sections, the absence of that data is identified in this document. Because the supplier cannot know the exact circumstances during actual use of this product, other hazards, exposure scenarios, disposal considerations, and regulations may apply and it is the responsibility of the user to read and understand the product label and this document before use. Do not use the product for purposes other than those stated in Section 1.
Issue date	30-April-2024
Version #	04
Effective date	30-April-2024
Prepared by	Dell Tech Laboratories, Ltd. Phone: (519) 858-5021
Further information	For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.
Other information	Redbook revision # 1, 4/7/17

16. Other information