

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 Pro Products LLC

Address 6714 Pointe Inverness Way

Suite 200 Fort Wayne

IN

46804-7935 United States 260-483-2519

Telephone260-483-2519E-mailNot available.

Emergency phone number 1-800-424-9300 (CHEMTREC)

Supplier See above.

2. Hazard identification

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 classification.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

None known

Disposal Dispose of waste and residues in accordance with local authority requirements.

WHMIS 2015: Health Hazard(s) not otherwise classified

HULUHOO)

(HHNOC)

WHMIS 2015: Physical None known

Hazard(s) not otherwise classified (PHNOC)

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.

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.

*CANADA GHS: The exact percentage (concentration) of composition has been withheld as a

trade secret.

#20718 Page: 1 of 7 Issue date 30-April-2021

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 medical attention if irritation persists. Do not induce vomiting. Never give anything by mouth if victim is unconscious or is convulsing. Ingestion Obtain medical attention. Direct contact with eyes may cause temporary irritation. Most important symptoms/effects, acute and delayed Indication of immediate Treat symptomatically. medical attention and special treatment needed 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 Do not use water jet as an extinguisher, as this will spread the fire. media Specific hazards arising from Firefighters should wear a self-contained breathing apparatus. the chemical Special protective equipment Firefighters should wear full protective clothing including self-contained breathing apparatus. and precautions for firefighters Fire-fighting Move containers from fire area if you can do so without risk. equipment/instructions Use standard firefighting procedures and consider the hazards of other involved materials. Specific methods General fire hazards No unusual fire or explosion hazards noted. **Hazardous combustion** May include and are not limited to: Oxides of carbon. products 6. Accidental release measures Keep unnecessary personnel away. Do not touch or walk through spilled material. For personal Personal precautions, protection, see section 8 of the SDS. protective equipment and emergency procedures Stop the flow of material, if this is without risk. Methods and materials for containment and cleaning up 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 Avoid prolonged exposure. Use good industrial hygiene practices in handling this material. Do not Precautions for safe handling get in eyes, on skin or on clothing. Wash thoroughly after handling. Store in a closed container away from incompatible materials. Keep out of reach of children. Conditions for safe storage, including any incompatibilities 8. Exposure controls/Personal protection Occupational exposure limits Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) Components Value **Form** Type Glycerol (CAS 56-81-5) TWA 10 mg/m3 Mist

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	Form
Glycerol (CAS 56-81-5)	TWA	3 mg/m3	Respirable mist.
		10 mg/m3	Mist.
Canada. Quebec OELs. (Ministry	y of Labor - Regulation respecting	g occupational health and s	safety)
Components	Туре	Value	Form
Glycerol (CAS 56-81-5)	TWA	10 mg/m3	Mist.
Canada. Saskatchewan OELs (Components	Occupational Health and Safety R Type	egulations, 1996, Table 21) Value	Form
Glycerol (CAS 56-81-5)	15 minute	20 mg/m3	Mist.
	8 hour	10 mg/m3	Mist.
US. OSHA Table Z-1 Limits for A	Air Contaminants (29 CFR 1910.10	000)	
Components	Туре	Value	Form
Glycerol (CAS 56-81-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.

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 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 Wear safety glasses with side shields.

Clear

Liquid.

Skin protection

Hand protection Impervious gloves. Confirm with reputable supplier first.

Other Wear appropriate chemical resistant clothing. As required by employer 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 considerations

Appearance Physical state

Wash hands before breaks and immediately after handling the product. Handle in accordance with

good industrial hygiene and safety practice. When using do not eat or drink.

9. Physical and chemical properties

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

Not available.

Pexplosive limits

To Not available.

Not available.

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

10. Stability and reactivity

Reactivity This product may react with oxidizing agents. **Possibility of hazardous** Hazardous polymerization does not occur.

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Chemical stability

reactions

Stable under recommended storage conditions.

Conditions to avoid Do not mix with other chemicals. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Oxidizers.

Hazardous decomposition

products

May include and are not limited to: Oxides of carbon.

11. Toxicological information

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

Information on likely routes of exposure

Ingestion May cause stomach distress, nausea or vomiting.

Inhalation Prolonged inhalation may be harmful.

Skin contactNo adverse effects due to skin contact are expected.Eye contactDirect contact with eyes may cause temporary irritation.Inproms related to theDirect contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Information on toxicological effects

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	
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation	n.	
Exposure minutes	Not available.		
Erythema value	Not available.		
Oedema value	Not available.		
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary 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

Canada - Alberta OELs: Irritant

Glycerol (CAS 56-81-5) Irritant

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classified or listed by IARC, NTP, OSHA and ACGIH.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

Reproductive toxicityThis product is not expected to cause reproductive 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)

Aquatic

Fish LC50 Rainbow trout, donaldson trout 51000 - 57000 mg/L, 96 hours

(Oncorhynchus mykiss)

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

Bioaccumulative potentialNo data available.Mobility in soilNo data available.Mobility in generalNot 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 Review federal, state/provincial, and local government requirements prior to disposal. Collect and

reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations

Hazardous waste code

Dispose in accordance with all applicable regulations.

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. 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 (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

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.

#20718 Page: 5 of 7 Issue date 30-April-2021

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 not known to be 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)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely

hazardous substance

SARA 311/312 Hazardous No

chemical

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: Listed substance

Glycerol (CAS 56-81-5) Listed.

US - Texas Effects Screening Levels: Listed substance

Glycerol (CAS 56-81-5) Listed.

US. Massachusetts RTK - Substance List

Glycerol (CAS 56-81-5)

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

Glycerol (CAS 56-81-5)

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

Glycerol (CAS 56-81-5)

US. Rhode Island RTK

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 regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

^{*}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

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.

30-April-2021 Issue date

Version # 03

Effective date 30-April-2021

Dell Tech Laboratories, Ltd. Phone: (519) 858-5021 Prepared by

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

document.

Redbook revision # 1, 4/7/17 Other information