

SAFETY DATA SHEET

1. Identification

Product identifier Hardness Solution #3

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

(TITINOC)

(HHNOC)

WHMIS 2015: Physical

Hazard(s) not otherwise classified (PHNOC)

Hazard(s) not otherwise

classified (HNOC)

None known

None known.

Supplemental information Not applicable.

3. Composition/Information on ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	%
Glycerol		56-81-5	10 - 30*

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

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

trade secret.

US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

secret in accordance with paragraph (i) of § 1910.1200.

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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.

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.

Most important symptoms/effects, acute and delayed

Eye contact

Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed

Symptoms may be delayed.

Treat for surrounding material.

General information If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Wear rubber

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

gloves and safety glasses with side shields. Keep out of reach of children.

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

Move containers from fire area if you can do so without risk.

equipment/instructions 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. Keep out of low areas. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Large Spills: Stop leak if you can do so 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. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. 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.

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. Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

Environmental precautions

Do not discharge into lakes, streams, ponds or public waters.

7. Handling and storage

Precautions for safe handling

Avoid prolonged exposure. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Avoid contact with eyes and skin. When using do not eat or drink. Keep container tightly closed.

Conditions for safe storage, including any incompatibilities Store in a closed container away from incompatible materials. Keep out of reach of children.

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	o. Exposure controls/r ersc	mai protection	
Occupational exposure limits			
	upational Health & Safety Code, Sched		Fa
Components	Туре	Value	Form
Glycerol (CAS 56-81-5)	TWA	10 mg/m3	Mist.
Canada. British Columbia C Safety Regulation 296/97, a	PELs. (Occupational Exposure Limits fo s amended)	r Chemical Substances, O	ccupational Health and
Components	Туре	Value	Form
Glycerol (CAS 56-81-5)	TWA	3 mg/m3 10 mg/m3	Respirable mist. Mist.
Canada. Quebec OELs. (Mir Components	nistry of Labor - Regulation respecting of Type	occupational health and sa Value	ifety) Form
Glycerol (CAS 56-81-5)	TWA	10 mg/m3	Mist.
	Ls (Occupational Health and Safety Reg	· · · · · · · · · · · · · · · · · · ·	_
Components	Туре	Value	Form
Glycerol (CAS 56-81-5)	15 minute	20 mg/m3	Mist.
	8 hour	10 mg/m3	Mist.
	for Air Contaminants (29 CFR 1910.100		
Components	Туре	Value	Form
Glycerol (CAS 56-81-5)	PEL	5 mg/m3 15 mg/m3	Respirable fraction. Total dust.
Biological limit values	No biological exposure limits noted for the	he ingredient(s).	
Appropriate engineering	Good general ventilation (typically 10 air		
controls	should be matched to conditions. If appl or other engineering controls to maintain exposure limits have not been establish	n airborne levels below recor	nmended exposure limits. If
- ·	such as personal protective equipmen		
Eye/face protection	Wear safety glasses with side shields.		
Skin protection	Importious gloves. Confirm with repute	ble cupplior firet	
Hand protection Other	Impervious gloves. Confirm with reputa Wear appropriate chemical resistant clo		ver code
Respiratory protection	Where exposure guideline levels may be		
respiratory protestion	Respirator should be selected by and us professional following requirements four CAN/CSA-Z94.4 and ANSI's standard for	sed under the direction of a t nd in OSHA's respirator stan	rained health and safety dard (29 CFR 1910.134),
Thermal hazards	Not applicable.	. , ,	•
General hygiene considerations	Wash hands before breaks and immedia good industrial hygiene and safety pract		
	9. Physical and chemica	l properties	
Appearance	Clear		
Physical state	Liquid.		
Form	Liquid		
Color	Colorless		
Odor	Odorless		
Odor threshold	Not available.		
pH	6.5 - 7.5		
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.		
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8. Exposure controls/Personal protection

Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits Flammability limit - lower Not available. Flammability limit - upper 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 Decomposition temperature** Not available. Not available. **Viscosity**

10. Stability and reactivity

This product may react with oxidizing agents. This product may react with acids. Reactivity

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Chemical stability Stable under recommended storage conditions.

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

Incompatible materials Strong oxidizing agents. Acids. Oxidizers.

Hazardous decomposition

products

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

11. Toxicological information

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

Information on likely routes of exposure

Ingestion May cause stomach distress, nausea or vomiting.

Inhalation Prolonged inhalation may be harmful. Skin contact Not expected to be a primary skin irritant.

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 irritation.

Information on toxicological effects

Acute toxicity

Components	Species	Test Results
Glycerol (CAS 56-81-5)		
Acute		
<i>Dermal</i> LD50	Guinea pig	56750 mg/kg, ECHA
<i>Inhalation</i> LC50	Rat	275000 mg/m³, 4 hours, ECHA
<i>Oral</i> LD50	Rat	11500 mg/kg, ECHA
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation	n.

Exposure minutes 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

Recover days

Not available.

Conjunctival oedema value

Not available.
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 toxicity

This 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 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.

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.

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15. Regulatory information

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 1999, Schedule 3)

Not listed

Greenhouse Gases

Canadian federal regulations

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS 2015 Exemptions Not applicable

This product is NOT known to be a "Hazardous Chemical" as defined by the OSHA Hazard **US federal regulations**

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 region Inventory name 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)

16. Other information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





Disclaimer

Issue date

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.

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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