

SAFETY DATA SHEET

1. Product and Company Identification

Product identifier Hardness Solution #2

Other means of identification Not available

Recommended use Water Testing Solution

Recommended restrictions None known.

Manufacturer information Pro Products LLC

6714 Pointe Inverness Way

Suite 200

Fort Wayne, IN 46804-7935 US

Phone: 260-483-2519

Emergency Phone: 1-800-424-9300 (CHEMTREC)

Supplier See above.

2. Hazards 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.

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

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 nameCommon name and synonymsCAS number%Glycerol56-81-530 - 60

Composition comments Non-hazardous by WHMIS/OSHA criteria

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 persis

Skin contactFlush 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.

Ingestion Do not induce vomiting. Never give anything by mouth if victim is unconscious or is convulsing.

Obtain medical attention.

Most important Direct contact with eyes may cause temporary irritation.

delayed

symptoms/effects, acute and

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Indication of immediate medical attention and special treatment needed

Treat symptomatically.

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	Fight	tina	Measures

Suitable extinguishing media

Unsuitable extinguishing

General information

media

Specific hazards arising from

the chemical Special protective equipment

and precautions for firefighters

Fire-fighting equipment/instructions

Specific methods

General fire hazards **Hazardous combustion** products

Treat for surrounding material.

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

Firefighters should wear a self-contained breathing apparatus.

Firefighters should wear full protective clothing including self-contained breathing apparatus.

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

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

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

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value	Form
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. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	туре	value	Form
Glycerol (CAS 56-81-5)	TWA	10 mg/m3	Mist.

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) Components Type Value Form Glycerol (CAS 56-81-5) **TWA** 10 mg/m3 Mist.

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 Components
 Type
 Value
 Form

 Glycerol (CAS 56-81-5)
 PEL
 5 mg/m3
 Respirable fraction.

 15 mg/m3
 Total dust.

Biological limit valuesNo 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.

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

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

Clear **Appearance** Liquid. Physical state **Form** Liquid Colorless Color Odor Not available. Odor threshold Not available. Not available. pН Melting point/freezing point Not available. Initial boiling point and boiling Not available. range Pour point Not available.

Specific gravity
Not available.

Partition coefficient
Not available.

(n-octanol/water)

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

pper/lower maininability of explosive 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 densityNot available.Relative densityNot available.Solubility(ies)Not available.Auto-ignition temperatureNot available.

Decomposition temperatureNot available.ViscosityNot available.

10. Stability and Reactivity

Reactivity This product may react with oxidizing agents.

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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. Contact with incompatible materials. Strong oxidizing agents. Oxidizers.

Incompatible materials

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 contact No adverse effects due to skin contact are expected. Direct contact with eyes may cause temporary irritation. Eye contact

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Species Test Results Components

Glycerol (CAS 56-81-5)

Acute

Dermal

LD50 Guinea pig 45 ml/kg, Days, ECHA

> Rabbit > 10000 mg/kg, SIGMA ALDRICH

> > 23000 mg/kg, CCOHS

Inhalation

Rat LC50 > 570 mg/m3, 1 Hours, HSDB

> > 143 mg/m³, 4 Hours, CCOHS 4655 mg.min/l, 7 Hours, ECHA

Oral

LD50 Guinea pig > 10000 mg/kg, ECHA

> Mouse 23000 mg/kg, CCOHS

> > 20.8 ml/kg, ECHA

Rat > 12600 mg/kg, SIGMA ALDRICH

> 27200 mg/kg, CCOHS 18300 mg/kg, ECHA

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Not available. **Exposure minutes** Erythema value Not available. Not available. Oedema value

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Not available. Corneal opacity value Iris lesion value Not available. Not available. Conjunctival reddening value

Not available. Conjunctival oedema value Recover days Not available.

Respiratory or skin sensitization

Canada - Alberta OELs: Irritant

Glycerol (CAS 56-81-5) Irritant

Respiratory sensitization Not available.

#20718 Page: 4 of 7 Issue date 23-November-2018 **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.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

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 instructionsReview 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.

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.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

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Precursor Control Regulations

Not regulated.

WHMIS 2015 Exemptions Not applicable

US federal regulationsThis 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.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No Delayed Hazard - No

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

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 - New Jersey RTK - Substances: Listed substance

Glycerol (CAS 56-81-5)

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

Not regulated.

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

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

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

HEALTH /	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	Х



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

document.

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