

SAFETY DATA SHEET

1. Product and Company Identification

Product Name	RUFFNECK HAND DEG
Product Number	555
Product Type	Mixture
Product Use	Steam cleaner for removing grease, dust and road film.
Manufacturer/Supplier	National Purity 6840 Shingle Creek Parkway, Suite #23 Brooklyn Center, MN 55430
Company Contact	612-672-0022
Emergency Telephone Number	1-800-255-3924

2. Hazards Identification

GHS Classification in accordance with 29 CFR 1910 OSHA HCS

Flammable liquid, (Category 3) H226
 Acute toxicity, Oral (Category 3) H301
 Skin corrosion/irritation, (Category 1) H314,
 Serious eye damage, (Category 1) H318
 Specific organ toxicity (Category 3) H335, H336
 Acute aquatic toxicity, (Category 3) H412

GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard Statements

H226 Flammable liquid and vapor.
 H301 Toxic if swallowed.
 H314 Causes severe skin burns and eye damage.
 H335, H336 May cause respiratory irritation. May cause drowsiness or dizziness.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames, ignition sources. No smoking.
 P261 Avoid breathing mist, vapors, or spray.
 P264 Wash hands and exposed skin thoroughly after handling.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well ventilated area.
 P273 Avoid release to the environment.

Response

P303+361+P353+P363 IF ON SKIN, immediately take off all contaminated clothing. Rinse skin with water or shower if appropriate. Wash contaminated clothing before reuse.
 P370+P378 In case of fire, use procedures appropriate for the primary source of fire.

P301+P312+P330	IF SWALLOWED, immediately call a POISON CENTER/doctor. DO NOT INDUCE VOMITING. Rinse mouth.
P305+P351+P338	IF IN EYES, rinse cautiously for several minutes. Remove contact lenses if present. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P304+P340	IF INHALED: remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if experiencing difficulty breathing or feeling unwell.
Storage/Disposal	
P403+P233+P235	Store in a well ventilated place. Keep cool. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local, state and federal regulations.

3. Composition/Information on Ingredients

The criteria for listing components in this section are: Ingredients that meet the criteria for carcinogenic, toxic to reproduction, or specific target organ toxicity and components otherwise considered hazardous according to OSHA which exceed the cut off limits for SDS specified by the criteria for mixtures are listed. Non hazardous components are not listed. This is not a composition disclosure. Exact percentages are considered proprietary and a trade secret.

Hazardous Components	CAS#	Classification	%
Ethylene glycol monobutyl ether	111-76-2	H227, H316, H320	3-8%
Potassium hydroxide	1310-58-3	H301, H314, H318, H402, H412	3-8%
Isopropyl alcohol	67-63-0	H225, H319, H336	1-5%
Tetrapotassium pyrophosphate	7320-34-5	H315, H319	1-3%
Sodium metasilicate pentahydrate	10213-79-3	H302, H314, H318, H335, H402	1-3%
(Nonylphenoxy) polyethylene oxide	9016-45-9	H320, H313, H401	1-2%

4. First Aid Measures

Description of First Aid Procedures

General Advice	Consult a physician. Show this SDS to the doctor.
In Case of Eye Contact	Flush with cool running water for 15 minutes. Remove contact lenses if possible. Get immediate medical attention.
In Case of Skin Contact	Flush with cool water. If irritation occurs, get medical attention.
If Ingested	Rinse mouth. Do not induce vomiting. Obtain immediate medical attention. Never give anything by mouth to an unconscious person.
If Inhaled	Move person to fresh air. If breathing difficulty persists, consult a physician.
Notes to Physician	Symptoms may be delayed.
General advice	Seek medical attention if feeling unwell. Show the SDS to the physician in attendance.

5. Fire-fighting Measures

Flammable properties	Flammable.
Extinguishing media	Use procedures proper for the primary source of the fire. Treat as an alkaline material.
Protection of firefighters	Firefighters should wear protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and not limited to oxides of carbon.
Unusual Fire, Explosion hazards	Containers may melt or rupture from heat of fire.

6. Accidental Release Measures

Personal precautions	Keep unnecessary personal away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled containers unless wearing protective Clothing.
Methods for containment	Prevent entry into waterways, sewers.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Small spills may be mopped up placed in a container for disposal. Large spills: dike with suitable material and prevent discharge into waterways. Spill may be absorbed with non reactive material and placed in a suitable container for disposal. Residues can be rinsed with water and passed to sanitary sewer. Dispose of contents/containers in accordance with local, state, and federal regulations.

7. Handling and Storage

Precautions for Safe Handling	Use good industrial hygiene practices when handling this material. Wash contaminated clothing before reuse.
Conditions for Safe Storage	Keep container closed when not in use. Keep away from heat or sources of ignition.. Store in cool dry place.

8. Exposure Controls and Personal Protection

Exposure Limits			
Ingredients	CAS#	OSHA PEL	ACGIH TLV
Ethylene glycol monobutyl ether	111-76-2	Not available	Not available
Potassium hydroxide	1310-58-3	Not available	2 mg/m ³ TLV
Isopropyl alcohol	67-63-0	400 ppm TWA, 980 mg/m ³ PEL	Not available
Tetrapotassium pyrophosphate	7320-34-5	19 mg/m ³ TWA,	Not available
Sodium metasilicate pentahydrate	10213-79-3	15 mg/m ³ TWA	Not available
(Nonylphenoxy)polyethylene oxide	9016-45-9	Not available	Not available

Engineering controls	Exhaust ventilation recommended
Personal protective equipment	
Eye/Face protection	Wear goggles or safety glasses with side shields if splash conditions exist.
Hand protection	Wear rubber or neoprene safety gloves.
Skin and body	As required by employer code.
Respiratory protection	Use a NIOSH approved respirator when exposure guidelines are exceeded.
General hygiene considerations	Handle in accordance with good industrial hygiene practices. Do not eat or drink when using product. Wash hands well before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Information on basic physical and chemical properties	
Appearance/form	Clear liquid
Color	Turquoise
Odor	Solvent/alcohol
Odor threshold	Not established
pH	> 13.5 (concentrate)
Melting/freezing point	Not established
Initial Boiling point	>212° F. (100° C.)
Flash point	130° F. (54° C.) Estimated.
Evaporation rate	< 1 (butyl acetate = 1)

Flammability	Flammable liquid and vapors
Upper/lower flammability or	Not established
Explosive limits	Not established
Vapor pressure	Not established
Vapor density	Not established
Specific gravity/density	1.31
Vapor density	Not established
Solubility in water	Complete
VOC	< 4.0%
% Volatile	≈ 88 0%

Other Safety Information

10. Stability and Reactivity

Reactivity	
Chemical Stability	Stable under normal storage conditions.
Hazardous reactions	
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Strong acids, strong oxidizing agents and amines.
Hazardous decomposition products	May include but not limited to oxides of carbon, phosphorous, and nitrogen.
Hazardous polymerization	Will not occur.

11. Toxicological Information

Ingredients	LC50
Ethylene glycol monobutyl ether	Not available.
Potassium hydroxide	Not available.
Isopropyl alcohol	16000 ppm (inhalation rat- 8 hours)
Tetrapotassium pyrophosphate	
Sodium metasilicate	Not available.
(Nonylphenoxy) polyethylene oxide	Not available.
Ingredients	LD50
Ethylene glycol monobutyl ether	Not available.
Potassium hydroxide	Not available.
Isopropyl alcohol	5,045 mg/kg (Oral-rat), 12,800 mg/kg (Dermal-rabbit)
Tetrapotassium pyrophosphate	> 1000 mg/kg (Oral- rabbit), 4640 mg/kg (Dermal-rabbit)
Sodium metasilicate	1153 mg/kg (Oral-Rat), 770 mg/kg (Oral-mouse)
Nonylphenoxy polyethylene oxide	3310 mg/kg (Oral-rat), >2000mg/kg (Dermal-rabbit)
Effects of acute exposure	
Eye	Will cause serious eye damage.
Skin	Will cause severe skin burns.
Ingestion	Toxic if swallowed. May cause irritation to mouth, throat and stomach.
Inhalation	May cause irritation of respiratory tract. May cause drowsiness or dizziness.
Sensitization	Not known.
Chronic effects of short and long	
Term exposure	Prolonged exposure to skin may cause drying, defatting and irritation.
Carcinogenicity	Does not contain ingredients considered carcinogenic by NTP, IARC, or OSHA.
Mutagenicity	No data available.
Reproductive effects	No data available.
Teratogenicity	No data available.

12. Ecological Information

Eco-toxicity	Ecological effects for this product have not been analyzed. However, if spilled this product and any contaminated soil may be harmful to aquatic life with long lasting effects. Sodium metasilicate is harmful to aquatic life in very low concentrations.
Ethylene glycol monbutyl ether	No data available.
Potassium hydroxide	No data available.
Isopropyl alcohol	LC50 Fathead minnow: 9,640 mg/l 24 hours EC50 Daphnia magna (water flea) 5,102 mg/l 24 hours EC50 Algae : > 1000 mg/l 24 hours
Tetrapotassium pyrophosphate	No data available.
Sodium metasilicate	LC50 (Mosquito fish) = 530mg/L. LC50 (Waterflea) 48 hours = 113mg/L
(Nonylphenoxy) polyethylene	LC50 Fish: 10mg/l 96 hours
Environmental effects	No data available.
Aquatic toxicity	
Nonylphenoxy polyethylene oxide	LC 50 Fish: 10mg/L 96 hours
Persistence and Degradability	
Sodium metasilicate	Will persist in aquatic and terrestrial systems.
Bioaccumulation/accumulation	No data available.
Partition coefficient	No data available.
Mobility in environmental media	No data available.
Chemical fate information	No data available.
Other adverse effects	No data available.

13. Disposal Considerations

Waste codes	Not Available
Disposal instructions	Dispose in accordance with local, state, and federal regulations.
Wastes from residues/unused product	Containerize. Rinse area with water. Keep out of storm sewer/waterways.
Contaminated packaging	Dispose in accordance with all applicable regulations.

14. Transport Information

Basic shipping requirements:	
Proper shipping name	Flammable liquid, corrosive, n.o.s.(contains isopropyl alcohol, ethylene glycol monobutyl ether, potassium hydroxide,sodium metasilicate), 3, UN2924, PG II
Hazard class	3
UN number	UN2924
Packing group	PG II
Packaging exceptions	None
Special provisions	

15. Regulatory Information

U.S federal regulations	This product has been classified in accordance with the Occupational Safety and Health Administration hazard criteria and the SDS contains all of the information required by OSHA. HCS 2012
TSCA	All ingredients are listed on the Toxic Substances Control Act.
Cercla SuperFund 40CFR117.302	This product does contain a material with a Reportable Quantity (RQ)
Ethylene glycol monobutyl ether	RQ = 5000 Lbs.

SARA Title III Section 311&312
SARA Title III Section 313

Immediate (Acute) Health Hazard
 Product does contain substances on the list of Toxic Chemicals per 40CFR372:
 Isopropyl alcohol, Ethylene glycol monobutyl ether

CA Proposition 65

This product does not contain chemicals known to the State of California to cause cancer, or reproductive effects.

States Right to Know

Reportable chemicals:
 Potassium hydroxide
 Sodium metasilicate pentahydrate
 Isopropyl alcohol

Inventory Status

Countries

U.S.
 Canada

Inventory Name

CIL
 DSL

On Inventory (Yes/No)*

Yes
 Yes

- A “Yes” indicates that all of the components of this product comply with the inventory requirements administered by the governing country(s) listed.

16. Other Information

HMIS RATING

HMIS Legend

Severe 4
 Serious 3
 Moderate 2
 Slight 1
 Minimal 0

Health 3
Flammability 2
Reactivity 0
Personal Protection B

Disclaimer

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