

SAFETY DATA SHEET

1. Product and Company Identification

Product Name	GARFLOR
Product Number	180
Product Type	Mixture
Product Use	Cleaner and degreaser for concrete floors.
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
Email	customerservice@nationalpurity.com

2. Hazards Identification

GHS Classification in accordance with 29 CFR 1910 OSHA HCS

Acute toxicity, Oral (Category 4) H302
Skin corrosion/irritation, (Category 1B) H314, H317
Serious eye damage/irritation, (Category 1) H318
Respiratory irritation (Category 3) H335
Acute aquatic toxicity, (Category 3) H402

GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard Statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H335	May cause respiratory irritation.
H402	Harmful to aquatic life.

Precautionary Statements

Prevention	
P260	Do not breath mist, vapors, or spray.
P264	Wash hand 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

P301+P312	IF SWALLOWED, immediately call a POISON CENTER/doctor. DO NOT INDUCE VOMITING. Drink 1-2 glasses of water or milk. Never give anything to an unconscious person.
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.
P310	Immediately call a POISON CONTROL/doctor.
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+233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local, state and federal regulations.

3. Composition/Information on Ingredients

The following are criteria for listing in this section: 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. Nonhazardous components are not listed. This is not a composition disclosure. Exact percentages are considered proprietary and a trade secret.

Hazardous Components	CAS#	Classification	%
Sodium carbonate	497-19-8	H319	40-45%
Sodium metasilicate pentahydrate	10213-79-3	H302, H314, H318, H402	38-42 %
Trisodium phosphate dodecahydrate	10101-89-0	H315, H319	10-15%
Nonylphenol, ethoxylated	9016-45-9	H320, H313, H401	2-6%
Pine oil (Terpene alcohols)	8002-09-3	H226, H317, H410	0-2%

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 medical attention.
In Case of Skin Contact	Flush with cool water. If irritation occurs, get medical attention.
If Ingested	Drink one or two glasses of water. Do not induce vomiting. Obtain 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	Not flammable.
Extinguishing media	Use materials designed for source of 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, and nitrogen.

Unusual Fire, Explosion hazards

Containers may melt or rupture from heat of fire. May form combustible mixtures with air when heated.

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 picked up with suitable tool and placed in a container for disposal. Large spills may be shoveled up and placed in a suitable container for disposal. Residues can be rinsed with water and passed to sanitary sewer. Keep out of waterways. 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 out of reach of children. Store in cool dry place, locked up.

8. Exposure Controls and Personal Protection

Exposure Limits

Ingredients

Ingredients	CAS#	OSHA PEL	ACGIH TLV
Sodium carbonate	497-19-8	Not available	Not available
Sodium metasilicate	6834-92-0	15 mg/m ³ TWA (Total dust)	Not available
Trisodium phosphate·12H ₂ O	10101-89-0	Not available	Not available
Nonylphenol, ethoxylated	9016-45-9	Not available	Not available
Pine Oil	8002-09-3	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 dust mask or 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	Powder
Color	Yellow
Odor	Pine
Odor threshold	Not established
pH	> 12.4 (1% solution)
Melting/freezing point	Not established
Initial Boiling point	> 212°F (100°C)
Flash point	None
Evaporation rate	Not established

Flammability	Not flammable
Upper/lower flammability or Explosive limits	Not established
Vapor pressure	Not established
Vapor density	Not established
Specific gravity/density	Not established
Vapor density	Not established
Solubility in water	Complete
VOC	< 1.0%
% Volatile	< 1.0%

Other Safety Information

10. Stability and Reactivity

Reactivity	Not reactive under normal use or storage.
Chemical Stability	Stable under normal storage conditions.
Hazardous reactions	None known.
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
Sodium carbonate	2.30 mg/l (Inhalation-rat) 2 hours
Sodium metasilicate	Not available
Trisodium phosphate dodecahydrate	Not available
Nonylphenoxy polyethylene oxide	Not available
Pine Oil	Not available
Ingredients	LD50
Sodium carbonate	2800 mg/kg (Oral-rat), > 2000 mg/kg (Dermal-rabbit)
Sodium metasilicate	1153 mg/kg (Oral-Rat), 770 mg/kg (Oral-mouse)
Trisodium phosphate dodecahydrate	7400 mg/kg (Oral-rat)
Nonylphenoxy polyethylene oxide	3310 mg/kg (Oral-rat), >2000mg/kg (dermal-rabbit)
Pine oil	2760 mg/kg (Oral-rat)

Effects of acute exposure

Eye	Will cause eye serious damage
Skin	Will cause severe skin burns
Ingestion	Harmful if swallowed. May cause corrosive damage to mouth, throat and stomach.
Inhalation	May cause irritation of nose and throat.
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	Nonhazardous.
Reproductive effects	Nonhazardous.

Teratogenicity Nonhazardous.

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. Sodium metasilicate is harmful to aquatic life in very low concentrations.
Sodium metasilicate	LC50 (Mosquito fish) = 530mg/L. LC50 (Waterflea) 48 hours = 113mg/L
Environmental effects	Not 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	Not Available
Partition coefficient	Not Available
Mobility in environmental media	Not Available
Chemical fate information	Not Available
Other adverse effects	Not 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:	US DOT Regulated
Proper shipping name	UN3262 Corrosive solid, basic, inorganic N.O.S. (contains sodium metasilicate), 8, UN3262, PG III
Hazard class	Corrosive liquid, 8
UN number	UN3262
Packing group	PG III
Special provisions	Not applicable
Packaging exceptions	49CFR173.154 Limited quantity. Inner packaging not over 11 pounds (5.0kg) is exempt from labeling/placarding when not offered or intended for transportation by aircraft.

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.
WHMIS	Class E
Cercla Super Fund 40 CFR 117.302	This product does not contain a material with a Reportable Quantity (RQ)
SARA Title III Section 311&312	Immediate (Acute) Health Hazard

SARA Title III Section 313

Product does not contain substances on the list of Toxic Chemicals per 40CFR372

States Right to Know

Reportable chemicals:
 Sodium metasilicate pentahydrate

California Proposition 65

This product contains residuals of chemicals known to the state of California to cause cancer, birth defects or reproductive effects:
 Ethylene Oxide (CAS #: 75-21-8)
 1,4-Dioxane (CAS #: 123-91-1)

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 0
Reactivity 0
Personal Protection B

Disclaimer

To the best of our knowledge, the information included herein is accurate. However, neither the above named supplier nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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Reason for Update