

HYDROFORCE Safety Data Sheet



Issue Date: 26-Jan-2016
Prepared by: Safety Department

1. IDENTIFICATION

Product Name: HYDROFORCE
Other means of identification: none
Recommended use: deep cleaner for coated or bare floors / concentrate
Prepared by: Safety Department
Source: US Formula Technology / 1000 McFarland 400 Blvd / Alpharetta, GA 30004 USA
Company Phone Number: 770-813-0008 or 800-728-7972 / Fax: 770-813-0470
Emergency Telephone Number (24 Hours): 1-800-535-5053 INFOTRAC (USA) /
International: 001-352-323-3500

2. HAZARDS IDENTIFICATION

Classification
Acute toxicity - Oral Category 4
Acute toxicity - Dermal Category 4
Acute toxicity - Inhalation (Mists) Category 4
Skin corrosion/irritation Category 1
Serious eye damage/eye irritation Category 1

Signal word: Warning

Hazard statements

Causes eye damage
Causes skin irritation/burns



Appearance: Clear green liquid
Physical state: Liquid / Odor: mild

Precautionary Statements: PREVENTION

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements: RESPONSE

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTER or doctor/physician if you feel unwell
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Rinse mouth. Do NOT induce vomiting

IN CASE OF FIRE: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements: STORAGE

Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Keep away from children.

Precautionary Statements: DISPOSAL

Dispose of contents at an approved waste disposal plant.
Triple rinse container to recycle.

Hazards not otherwise classified (HNOC): Not Applicable

Other Information: Harmful to aquatic life with long lasting effects

3. COMPOSITION / INFORMATION on INGREDIENTS

Chemical Name	CAS No	Weight-%
Deionized water	7732-18-5	> 75
Sodium metasilicate pentahydrate	10213-79-3	< 10
Alkyl polyglycoside C10-16	110615-47-9	< 5
Alkyl polyglycoside C8-10	68515-73-1	< 5
Alcohols, C9-11, ethoxylated	68439-46-3	< 5

4. FIRST AID MEASURES

INHALATION: Remove victim to fresh air.

EYE CONTACT: Immediately flush with plenty of water.
After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.
Get immediate medical advice/attention.

INGESTION: Rinse mouth. DO NOT induce vomiting (aspiration risk). Drink 1/2 cup water, citrus fruit juice, or milk. Call a physician or poison control center immediately.

SKIN CONTACT: Wash off immediately with plenty of water for at least 15 minutes.
Take off contaminated clothing and wash before reuse. Call a physician if you feel unwell.
Product may be neutralized with vinegar.

section 4 continued (FIRST AID MEASURES)

Most important symptoms and effects, both acute and delayed
Contact will cause irritation and redness to exposed areas. Causes painful stinging or burning of eyes and lids, watering of eyes. Prolonged contact may be corrosive to skin. Inhaling mists would be irritating although unlikely. Ingestion may cause irritation to mouth or stomach. Indication of any immediate medical attention and special treatment needed.
Note to physicians: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Non flammable / Non combustible.
Suitable Extinguishing Media: Water spray (fog). Alcohol resistant foam. Dry chemical.
Unsuitable Extinguishing Media: Not determined.
Specific hazards arising from the chemical: Non combustible. Keep containers cool.
Protective equipment and precautions for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment as required. Remove all sources of ignition. Spills may be slippery. Prevent foot traffic.

Environmental precautions: Do not discharge outside. Do not permit to escape directly into creeks or other natural waterways.

Methods for containment. Prevent further leakage or spillage if safe to do so.
Methods for cleaning up large spills: Reclaim liquid with mop and bucket. Filter and save for some use where quality is not critical. Rinse area with clean water and dry before permitting traffic. Methods for cleaning up small spills: Use a material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean up in accordance with all applicable regulations.

7. HANDLING AND STORAGE

Precautions for safe handling
Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Use personal protection recommended in Section 8. Use only in well-ventilated areas. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Protect product quality by keeping containers tightly closed when not in use, avoid pouring unused material back into original container. Never use food or beverage containers to measure or transport this product. Empty containers contain residues and should not be used for food or beverage.

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up and out of reach of children and pets. Protect from direct sunlight. Store at 40-95°F.
Packaging materials: Keep in original container.
Incompatible materials: Bleach, strong acids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

	ACGIH TLV	OSHA PEL
sodium metasilicate pentahydrate / CAS No. 10213-79-3	2 mg/m ³	2 mg/m ³

Appropriate Engineering Controls

Apply technical measures to comply with the occupational exposure limits.
Individual protection measures,

Appropriate Personal Protective Equipment:

Eye/face protection: Recommend approved safety goggles.
Skin and body protection: Recommend butyl rubber or neoprene gloves.
Some situations may require rubber apron and rubber overshoes.
Respiratory protection: Under normal conditions, respirator is not normally required.
General Hygiene: Handle in accordance with good industrial hygiene and safety practice.



9. PHYSICAL AND CHEMICAL PROPERTIES

pH	13	Water solubility	Complete
Melting point/freezing point	Not determined	Solubility in other solvents	Not determined
Boiling point/boiling range	100 °C / 212 °F	Partition coefficient	Not determined
Flash point	> 60 °C / > 140 °F	Autoignition temperature	Not determined
Evaporation rate	1.0	Decomposition temperature	Not determined
Flammability (solid, gas)	n/a-liquid	Kinematic viscosity	Not determined
Flammability limits in air:	none	Dynamic viscosity	Not determined
Vapor pressure	Not determined	Explosive properties	Not determined
Vapor density	Heavier than air	Oxidizing properties	Not determined
Specific gravity	>1		

10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions
Chemical stability: Stable under recommended storage conditions.
Possibility of Hazardous Reactions: None under normal conditions.
Hazardous polymerization: Hazardous polymerization does not occur.
Conditions to avoid: Incompatible materials. Heat.
Incompatible materials: Strong acids, galvanized iron, zinc, aluminum.
Hazardous Decomposition Products: Not determined

continued on next page

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:
 Inhalation: Mists may be irritating but are not generated in normal use.
 Eye contact: Causes severe eye irritation.
 Skin Contact: Causes skin irritation.
 Ingestion: Harmful if swallowed.

Component Information	Oral LD50	Dermal LD50	Inhalation LC50
sodium metasilicate pentahydrate CAS No. 10213-79-3	> 2000 mg/kg (Rat)	not available	not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

No information available on carcinogenicity, epidemiology, mutagenicity or teratogenicity for ingredient "sodium metasilicate pentahydrate". No neurotoxicity has been identified. May cause respiratory irritation.

Numerical measures of toxicity - Not determined

NOTE: Information on physical, chemical and toxicological effects in section 4 of this SDS.

12. ECOLOGICAL INFORMATION

Ecotoxicity:
 sodium metasilicate pentahydrate is harmful to aquatic life in low concentrations.

Chemical	Fish	Crustacea
sodium metasilicate pentahydrate CAS No. 10213-79-3	210: 96 h Brachydanio rerio mg/L LC50 semi-static 210: 96 h Brachydanio rerio mg/L LC50	216: 96 h Daphnia magna mg/L EC50

Persistence and degradability:

Limited data is available for ingredient sodium metasilicate pentahydrate. Soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica. They combine with ions such as Ca, Mg, Fe, Al to form compounds similar to those in natural soils. Significant releases could have an adverse impact on the pH of aquatic systems until neutralized. When pH is neutralized only silica remains to be transported into ground waters.

Product may be neutralized with dilute acid such as vinegar.

Bioaccumulation: Contains no known bioaccumulative ingredients.

Mobility: Not determined.

Other adverse effects Not determined

Less than 1% VOC

13. DISPOSAL CONSIDERATIONS

Waste treatment methods: dispose of wastes in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws.

California Hazardous Waste Status: Not listed

Any waste with a pH of 12.5 and above is considered RCRA hazardous waste.

14. TRANSPORT INFORMATION

Not regulated for transport.

Emergency Telephone INFOTRAC 1-800-535-5053 (North America)
 352-323-3500 (International)

15. REGULATORY INFORMATION

The ingredient sodium metasilicate pentahydrate is considered generally recognized as safe (GRAS) by the Food and Drug Administration (FDA) for use in washing mixtures for fruits and vegetables, in sanitizing solutions for food-contact surfaces, in boiler water.

The ingredient sodium metasilicate is also regulated by the Environmental Protection Agency It has been Reregistration Eligibility Decision (RED) approved."
http://ntp.niehs.nih.gov/ntp/htdocs/chem_background/exsumpdf/sodiummetasilicate_508.pdf

The ingredient "sodium metasilicate pentahydrate" is on following lists:
 TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
 EINECS - European Inventory of Existing Chemical Substances
 ENCS - Japan Existing and New Chemical Substances

US Federal Regulations:

Are any ingredients required to be identified under:

SARA Section 302 (40 CFR 355 Appendix A)..... No
 SARA Section 313 (40 CFR 372.65) No
 CERCLA (40 CFR 302.4)..... No

SARA 311/312 Hazard Categories for the ingredient sodium metasilicate pentahydrate CAS No 10213-79-3 are as follows:

FIRE: No / REACTIVITY: No / PRESSURE: No / IMMEDIATE: Yes / CHRONIC: No

US State Regulations: U.S. State Right-to-Know Regulations
 No ingredient listed as hazardous in any U.S. State.
 California Proposition 65 list? No

16. OTHER INFORMATION

NFPA
 0 = minimal risk
 1 = slight risk
 2 = moderate risk
 3 = serious risk
 4 = extreme risk



There have been no reports of injuries using this product as of the date of publication.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.