

THIS APPLIES TO UNDILUTED MATERIAL ONLY!



210 N Locust / PO Box 22
Pittsburg, Kansas

- SINCE 1977 -

1-800-421-4018 - Toll Free
1-620-231-4777 - Fax

Safety Data Sheet
HOT STUFF PLUS₅₂₆
SDS Revision Date: 06/26/2020

1. Product and Company Name

1.1. Product identifier

Product Identity HOT STUFF PLUS₅₂₆
Alternate Names NA ID NO: 526.25

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use See Product Label.
Application Method See Technical Data Sheet

1.3. Details of the supplier of the safety data sheet

Company Name HY FLO
210 N. Locust
Pittsburg, KS. 66762
MFG. BY: Hydrus Detergents PH: 712-765-1060

**FOR EMERGENCY SPILL, LEAK, FIRE, EXPOSURE
CALL 24/7** CHEMTREC (800) 424-9300
Outside U.S. (703) 527-3887

Customer Service: HY FLO PHONE: (800) 421-4018
FAX: (620) 231-4777

2. Hazard identification of the product

2.1. Classification of the substance or mixture

Acute Tox. 5;H302 May be harmful if swallowed.
Skin Corr. 1B;H314 Causes severe skin burns and eye damage.
Eye Dam. 1;H318 Causes serious eye damage.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



Danger

H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.

[Prevention]:

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product.

P271 Use in a well-ventilated area.

P280 Wear protective gloves / eye protection / face protection.

[Response]:

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P308+313 IF exposed or concerned: Get medical advice / attention.

P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P363 Wash contaminated clothing before reuse.

[Storage]:

P405 Store locked up.

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %
Potassium Hydroxide CAS Number: 0001310-58-3	10 - 30
Furfuryl Alcohol CAS Number: 0000098-00-0	.05 - 5.0
Disodium metasilicate CAS Number: 0006834-92-0	1.0 - 10
Ester Blend - (Proprietary)	1.0 - 10

4. First aid measures

4.1. Description of first aid measures

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. NOTES TO PHYSICIAN: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
Inhalation	Get into fresh air, if breathing is difficult, have a trained person administer oxygen. If breathing stops, give mouth-to-mouth resuscitation. Seek medical attention immediately!
Eyes	Allow streaming water to flow over the face while blinking both eyes for 15 minutes for optimum irrigation. Get medical attention.
Skin	Wash off immediately, while removing contaminated clothing and shoes. Seek medical attention. Discard any clothing/shoes that cannot be cleaned.
Ingestion	Do NOT induce vomiting. Give water or milk of Magnesia. Seek immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Overview	IMMEDIATE CONCERNS: CAUTION: May cause eye burns or skin irritation. POTENTIAL SIDE AFFECTS EYES: Mist could cause eye damage if not treated immediately. SKIN: May be irritant if not rinsed off. INGESTION: May be an irritant to mouth and throat. INHALATION: Avoid mist, may be an irritant. SIGNS AND SYMPTOMS OF OVEREXPOSURE EYES: Irritation SKIN: Mist can cause skin irritation. INGESTION: Can cause irritation to the stomach. INHALATION: Avoid mist, can be an irritant.
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ACUTE TOXICITY: Irritation may be caused with exposure to mist.

See section 2 for further details.

Inhalation

Harmful if inhaled.

Eyes

May cause serious eye damage.

Skin

May cause severe skin burns and eye damage.

Ingestion

May be harmful if swallowed.

5. Fire-fighting measures

5.1. Extinguishing media: Use standard fire-fighting media on surrounding materials including water, spray, foam and carbon dioxide. (Do not use dry chemical extinguisher containing ammonium compounds)

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: NA

Avoid breathing dust / fume / gas / mist / vapors / spray.

5.3. Advice for fire-fighters

Respiratory and eye protection are required for fire-fighting personnel. Full protective equipment (Bunker Gear) and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires.

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire-fighting to enter drains or water ways.

ERG Guide No. ----

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

WATER SPILL: Use appropriate containment to avoid runoff.

LAND SPILL: Use appropriate containment to avoid runoff.

RELEASE NOTES: If spill could potentially enter any waterway, including intermittent dry creeks, contact the local authorities. If in the US, contact the US Coast Guard National Response Center toll free at 800-424-8802.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

SMALL SPILL: Shut off leak if it can be done without injury. Contain spill as much as possible, pump to recovery container. Flush area with large amounts of water.

LARGE SPILL: Shut off leak if it can be done without injury. Contain spill as much as possible pump to recovery container. Flush area with large amounts of water.

7. Handling and storage

7.1. Precautions for safe handling

HANDLING: Handle in a well ventilated area. Handle and use in a manner consistent with good industrial and/or manufacturing techniques and practices.

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Containers should be stored in a cool, dry, well-ventilated area. Exercise due caution to prevent damage to or leakage from the container. Keep containers closed when not in use.

Incompatible materials: Galvanized metals, acids, zinc and aluminum.

STORAGE: Store in a cool dry area. Keep container closed when not in use. Freeze/thaw stable; however container may crack if frozen.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s): Industrial detergent.

8. Exposure controls and personal protection

8.1. Control parameters

EXPOSURE

CAS No.	Ingredient	Source	Value
0000098-00-0	Furfuryl Alcohol	OSHA	TWA 50 ppm (200 mg/m3)
		ACGIH	TWA: 5 ppm STEL: 10 ppm S
		NIOSH	TWA 10 ppm (40 mg/m3) ST 15 ppm (60 mg/m3) [skin]
		Supplier	No Established Limit

0006834-92-0	Disodium metasilicate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	ACHAN TLV/OSHA 2mg/m3PEL2/mgm3
0001310-58-3	Potassium hydroxide	OSHA	No Established Limit
		ACGIH	Ceiling: 2mg/m3
		NIOSH	No Established Limit
		Supplier	No Established Limit

Carcinogen Data: No suspect or known carcinogens.

8.2. Exposure controls

Respiratory

Mist Mask

Eyes

Safety glasses or goggles.

Skin

Chemical resistant clothing such as coveralls/apron boots should be worn. Chemical resistant gloves.

Engineering Controls

Provide adequate ventilation.

Other Work Practices

Facilities storing or using this material should be equipped with an eyewash facility and a safety shower. Good personal hygiene practices should always be followed.

REMARKS: This product contains hazardous ingredients per OSHA 29 CFR 1910.1200. No PEL's TLV's or OEL's for this product or its ingredients are listed in the current issue of ACGIH's Guide to Occupational Exposure values nor have they been determined by the manufacturer. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance	Brown Liquid
Odor	Ether
Odor threshold	Not Measured
pH	5% solution = 12.4
Melting point / freezing point	10 F
Initial boiling point and boiling range	>212 F
Flash Point	>212 F ASTM D-53
Evaporation rate (Ether = 1)	Not Measured
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: 1.8 Upper Explosive Limit: 23
Vapor pressure (Pa)	23 @ 70 F
Vapor Density	(Air=1) 1.2
Specific Gravity	1.15
Solubility in Water	Soluble
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	NA
Decomposition temperature	Not Measured
Viscosity (cSt)	NA
VOC %	NA
Molecular Weight	NA
Molecular Formula	NA
Coefficient of Oil/Water Distribution	NA

9.2. Other information: No other relevant information.

10. Stability and reactivity

10.1. Reactivity: Hazardous Polymerization will not occur.

10.2. Chemical stability: Stable under normal circumstances.

10.3. Possibility of hazardous reactions: Product will react with "soft" metals such as aluminum, tin, magnesium and zinc releasing flammable hydrogen gas.

10.4. Conditions to avoid: Excessive heat and open flame.

Sealed containers may develop explosive pressures under fire conditions. Use water to cool containers exposed to fire.

10.5. Incompatible materials: Galvanized metals, acids, zinc and aluminum.

10.6. Hazardous decomposition products: NA

11. Toxicological information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr	Inhalation Gas LD50, ppm
Furfuryl Alcohol - (98-00-0)	275.00, Rat - Category: 3	675.00, Rabbit - Category: 3	No data available	No data available	233.00, Rat - Category: NA
Disodium metasilicate – (6834-92-0)	1,153.00, Rat-Category: 4	No data available	No data available	No data available	No data available
Potassium hydroxide – (1310-58-3)	365.00 Rat-Category: 4	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	4	Harmful if swallowed.
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	1A	Causes severe skin burns and eye damage.
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

12. Ecological information

12.1. Toxicity

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Furfuryl Alcohol - (98-00-0)	701.00, Leuciscus idus	115.00, Daphnia magna	1,000.00 (24 hr), Chlorococcales
Disodium metasilicate - (6834-92-0)	210.00, Danio rerio	33.53, Ceriodaphnia dubia	400.00 (72 hr), Pseudokirchneriella subcapitata

12.2. Persistence and degradability: There is no data available on the preparation itself.

12.3. Bioaccumulative potential: Not Measured.

12.4. Mobility in soil: No data available

12.5. Results of PBT and vPvB assessment: This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects: No data available.

13. Disposal considerations

13.1. Waste treatment methods: Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

DOT (Domestic Surface Transportation)

IMO / IMDG (Ocean Transportation)

ICAO/IATA

14.1. UN number	UN1719	UN1719	UN1719
14.2. UN proper shipping name	UN1719, Caustic, alkali liquids, n.o.s., (Contains Potassium Hydroxide solution, Sodium Metasilicate) 8, PG II	UN1719, Caustic, alkali liquids, n.o.s., (Contains Potassium Hydroxide solution, Sodium Metasilicate) 8, PG II	UN1719, Caustic, alkali liquids, n.o.s., (Contains Potassium Hydroxide solution, Sodium Metasilicate)
14.3. Transport hazard class(es)	DOT Hazard Class: 8 DOT Label: Corrosive	IMDG: 8 Sub Class: Not Applicable	Air Class: 8
14.4. Packing group	II	II	II
14.5. Environmental hazards			
IMDG	Marine Pollutant: No		
14.6. Special precautions for user:	No further information.		

15. Regulatory information

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act (TSCA)	All components of this material are either listed or exempt from listing on the TSCA Inventory.
WHMIS Classification	D2A E
US EPA Tier II Hazards	Fire: No Sudden Release of Pressure: No Reactive: No Immediate (Acute): Yes Delayed (Chronic): Yes

- EPCRA 311/312 Chemicals and RQs (lbs.):** Potassium hydroxide (1,000.00)
- EPCRA 302 Extremely Hazardous :** (No Product Ingredients Listed)
- EPCRA 313 Toxic Chemicals:** (No Product Ingredients Listed)
- Proposition 65 - Carcinogens (>0.0%):** (No Product Ingredients Listed)
- Proposition 65 - Developmental Toxins (>0.0%):** (No Product Ingredients Listed)
- Proposition 65 - Female Repro Toxins (>0.0%):** (No Product Ingredients Listed)
- Proposition 65 - Male Repro Toxins (>0.0%):** (No Product Ingredients Listed)
- N.J. RTK Substances (>1%):** Furfuryl Alcohol, Potassium Hydroxide
- Penn RTK Substances (>1%):** Furfuryl Alcohol, Potassium Hydroxide

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

We believe this Safety Data Sheet conforms to the requirements of US OSHA 29 CFR 1910.1200, 91/155/EEC and Canadian Hazardous Products Act. We believe the information contained on this Safety Data Sheet is current and offered in good faith. The information is provided for your guidance only. Hydrus Detergents makes no warranty of any kind, express or implied, concerning the accuracy or completeness of the information and data herein. It is the user's obligation to determine the suitability of this product for a specific purpose and the conditions for safe use of the product. We reserve the right to revise this Safety Data Sheet as newer information becomes available. Hydrus Detergents makes no warranty of any kind.

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