

THIS APPLIES TO UNDILUTED MATERIAL ONLY!



Safety Data Sheet
RAPTOR₅₂₈
SDS Revision Date: 08/03/2020

1. Product and Company Name

1.1. Product identifier

Product Identity RAPTOR₅₂₈
Alternate Names NA ID NO: 528.20

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 Hydrus Detergents
2621 7th Avenue South
Estherville, IA. 51334

1.4 Medical and Emergency Spill Information

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

Customer Service: Hydrus Detergents PHONE: (712) 765-1060
FAX: (712) 765-1062

2. Hazard identification of the product

2.1. Classification of the substance or mixture

Skin Corr. 1B;H314 May cause severe skin burns and eye damage.
Eye Dam. 1;H318 May cause serious eye damage.
Skin Sens. 1;H317 May cause an allergic skin reaction.

2.2. Label elements

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



Warning

H314 May cause severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 May cause serious eye damage.

[Prevention]:

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.
P264 Wash thoroughly after handling.
P280 Wear protective gloves / eye protection / face protection.

[Response]:

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+352 IF ON SKIN: Wash with plenty of soap and water.
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.

P333+313 If skin irritation or a rash occurs: Get medical advice / attention.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

[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 % |
|--|----------|
| D-Limonene CAS Number: 0005989-27-5 | 1.0 - 05 |
| Disodium metasilicate CAS Number: 0006834-92-0 | 1.0 - 10 |
| pentasodium triphosphate CAS Number: 0007758-29-4 | 1.0 - 10 |
| Proprietary | 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

If breathing is difficult move to fresh air.

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. Remove contaminated clothing and shoes. Seek medical attention if irritation persists.

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 or skin irritation/inflammation.

POTENTIAL SIDE EFFECTS:

EYES: Irritation and/or burns may occur when using undiluted.

SKIN: May be irritant if not rinsed off.

INGESTION: Throat and stomach may become irritated.

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.

ACUTE TOXICITY: Irritation may be caused with exposure to mist.

See section 2 for further details.

Eyes

May cause serious eye damage.

Skin

May cause an allergic skin reaction. Causes severe skin burns and eye damage.

5. Fire-fighting measures

5.1. Extinguishing media: Water, Carbon Dioxide, Foam, Dry Chemical.

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

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. Flush area with large amounts of water.
 LARGE SPILL: Shut off leak if it can be done without injury. Flush area with large amounts of water.

7. Handling and storage

7.1. Precautions for safe 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

Handle containers carefully to prevent damage and spillage.
 Incompatible materials: Oxidizing agents, strong acids.
 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 |
|--------------|-----------------------|----------|--|
| 0006834-92-0 | Disodium metasilicate | OSHA | No Established Limit |
| | | ACGIH | No Established Limit |
| | | NIOSH | No Established Limit |
| | | Supplier | ACHAN TLV/OSHA 2mg/m ³ PEL 2mg/m ³ |

Carcinogen Data: No suspected 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 Impervious 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 Semi-clear Liquid
Odor Citrus
Odor threshold Not Measured
pH 5% solution 11.9
Melting point / freezing point 32 F
Initial boiling point and boiling range > 212 F

| | |
|--|--|
| Flash Point | None |
| Evaporation rate (Ether = 1) | Not Measured |
| Flammability (solid, gas) | Not Applicable |
| Upper/lower flammability or explosive limits | Lower Explosive Limit: Not Measured Upper Explosive Limit: Not Measured |
| Vapor pressure (Pa) | 23 @ 70 F |
| Vapor Density | (Air=1) 1.2 |
| Specific Gravity | 1.07 |
| 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 Formula | NA |
| Molecular Weight | 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:** No data available.
- 10.4. **Conditions to avoid:** No data available.
- 10.5. **Incompatible materials:** Oxidizing agents, strong acids.
- 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 |
|--|-----------------------------|--------------------------------|---------------------------------|-------------------------------------|--------------------------|
| D-Limonene - (5989-27-5) | 4,400.00, Rat - Category: 5 | 5,000.00, Rabbit - Category: 5 | No data available | No data available | No data available |
| Disodium metasilicate - (6834-92-0) | 1,153.00, Rat - Category: 4 | No data available | No data available | No data available | No data available |
| pentasodium triphosphate - (7758-29-4) | 3,120.00, Rat - Category: 5 | No data available | No data available | No data available | No data available |
| Proprietary | No data available | 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) | --- | Not Applicable |
| Acute toxicity (dermal) | --- | Not Applicable |
| Acute toxicity (inhalation) | --- | Not Applicable |
| Skin corrosion/irritation | 1B | May cause severe skin burns and eye damage. |
| Serious eye damage/irritation | 1 | May cause serious eye damage. |
| Respiratory sensitization | --- | Not Applicable |
| Skin sensitization | 1 | May cause an allergic skin reaction. |
| 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

| Ingredient | 96 hr LC50 fish, mg/l | 48 hr EC50 crustacea, mg/l | ErC50 algae, mg/l |
|-------------------------------------|----------------------------|----------------------------|---|
| D-Limonene - (5989-27-5) | 0.702, Pimephales promelas | 0.577, Daphnia magna | Not Available |
| Disodium metasilicate - (6834-92-0) | 210.00, Danio rerio | 33.53, Ceriodaphnia dubia | 400.00 (72 hr), Pseudokirchneriella subcapitata |
| Proprietary | Not Available | Not Available | Not Available |

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 | Not Applicable | Not Regulated | Not Regulated |
| 14.2. UN proper shipping name | Not Regulated | Not Regulated | Not Regulated |
| 14.3. Transport hazard class(es) | DOT Hazard Class: Not Applicable DOT Label: --- | IMDG: Not Applicable Sub Class: Not Applicable | Air Class: Not Applicable |
| 14.4. Packing group | Not Applicable | Not Applicable | Not Applicable |
| 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 D2B E

US EPA Tier II Hazards

Fire: No

Sudden Release of Pressure: No

Reactive: No

Immediate (Acute): Yes

Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs (lbs.): pentasodium triphosphate (5,000.00)

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%) : (No Product Ingredients Listed)

Penn RTK Substances (>1%): pentasodium triphosphate

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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