

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
CHLORACLEAN₅₁₂
SDS Revision Date: 04/13/2021

1. Product and Company Name

1.1. Product identifier

Product Identity CHLORACLEAN₅₁₂
Alternate Names NA ID NO: 512.413

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

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: 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;H303 May be harmful if swallowed. (Not adopted by US OSHA)
Skin Corr. 1B;H314 May cause severe skin burns and eye damage.
Eye Dam. 1;H318 May cause serious eye damage.

2.2. Label elements

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

Warning



H303 May be harmful if swallowed.
H314 May cause severe skin burns and eye damage.
H318 May cause serious eye damage.

[Prevention]:

P260 Do not breathe 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.
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.
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 %
Disodium metasilicate CAS Number: 0006834-92-0	1.0 - 10
pentasodium triphosphate CAS Number: 0007758-29-4	1.0 - 10
Sodium dodecylbenzenesulfonate. CAS Number: 0025155-30-0	1.0 - 10
Proprietary	1.0 - 10
Ethylene glycol monobutyl ether CAS Number: 0000111-76-2	1.0 - 10
Sodium dichloroisocyanurate dihydrate CAS Number: 0051580-86-0	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. See section 2 for further details.
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. 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 burns. POTENTIAL SIDE AFFECTS EYES: Could cause eye damage if not treated immediately. SKIN: May be irritant if not rinsed off. INGESTION: May be an irritant. 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 irritant. ACUTE TOXICITY: Irritation may be caused with exposure to mist.
Eyes	May cause serious eye damage.
Skin	May cause severe skin burns and eye damage.
Ingestion	May be harmful if swallowed. (Not adopted by US OSHA)

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: Oxides of Carbon

Do not breathe mist / vapors / spray.

5.3. Advice for fire-fighters

Respiratory and eye protection are required for firefighting personnel. Full protective equipment and self-contained breathing apparatus should be used for all indoor fires and any significant outdoor fires.

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

Do not allow spills to enter drains or waterways.

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. Capture into recovery container.

LARGE SPILL: Dike with earth; pump to a recovery tank.

Large and small spills may have a broad definition depending on the user's handling system. Therefore, the spill category must be defined at the point of release by technically qualified personnel.

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.

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.

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

Incompatible materials: Acids

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
0000111-76-2	Ethylene glycol monobutyl ether	OSHA	TWA 50 ppm (240 mg/m ³) [skin]
		ACGIH	TWA: 20 ppm Revised 2003,
		NIOSH	TWA 5 ppm (24 mg/m ³) [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/m ³ PEL 2mg/m ³

Carcinogen Data : No suspected or known carcinogens.

8.2. Exposure controls

Respiratory

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eyes

Safety glasses or goggles.

Skin

Chemical resistant gloves. Apron.

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. 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	Clear Liquid
Odor	Chlorine
Odor threshold	Not Measured
pH	10.7 (5% solution)
Melting point / freezing point	32 F
Initial boiling point and boiling range	>212 F
Flash Point	NA
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	1.03

Solubility in Water	Soluble
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	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 ambient conditions of temperature and pressure.
 10.3. **Possibility of hazardous reactions:** No data available.
 10.4. **Conditions to avoid:** Do not mix with acids.
 10.5. **Incompatible materials:** Acids
 10.6. **Hazardous decomposition products:** Oxides of Carbon

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
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
Ethylene glycol monobutyl ether - (111-76-2)	1,414.00, Guinea Pig - Category: 4	1,200.00, Guinea Pig - Category: 4	173.00, Guinea Pig - Category: NA	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)	5	May be harmful if swallowed. (Not adopted by US OSHA)
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	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

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
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
Ethylene glycol monobutyl ether - (111-76-2)	220.00, Fish (Piscis)	1,000.00, Daphnia magna	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

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) Sodium dodecylbenzenesulfonate (1,000.00)

EPCRA 302 Extremely Hazardous : (No Product Ingredients Listed)

EPCRA 313 Toxic Chemicals: Ethylene glycol monobutyl ether

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%): Ethylene glycol monobutyl ether, Sodium dodecylbenzenesulfonate

Penn RTK Substances (>1%): Ethylene glycol monobutyl ether, pentasodium triphosphate, sodium dichloroisocyanurate dihydrate, Sodium dodecylbenzenesulfonate.

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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