SAFETY DATA SHEET

Section 1. Identification

CHS Inc. Transportation Emergency (CHEMTREC) 1-800-424-9300

P.O. Box 64089 **Technical Information** 1-651-355-8443

Mail station 525 **SDS Information** 1-651-355-8445 St. Paul, MN 55164-0089

: HD MOLY XTREME GREASE SDS no. **Product name** 0203-L04AXX

Common name **Revision date** 01/15/2014 Grease.

Chemical name : Soap-Thickened Oil Lubricant Chemical formula Mixture

Chemical family Hydrocarbon.

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

Not available.

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or

mixture

: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

GHS label elements

Hazard pictograms



Signal word Warning

Hazard statements Causes serious eye irritation.

Precautionary statements

General : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or

label at hand.

Hazardous Material Information System (U.S.A.) Health: 2 Flammability: Physical hazards: 0 2 National Fire Protection Association (U.S.A.) Health: Flammability: Instability: 0

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Chemical name Soap-Thickened Oil Lubricant

Other means of identification Grease.

Ingredient name	%	CAS number
Boric acid Calcium dihydroxide	1 - 5 0.1 - 1	10043-35-3 1305-62-0

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : If material comes in contact with the eyes, immediately wash the eyes with large amounts of water for 15

minutes, occasionally lifting the lower and upper lids. Get medical attention.

Inhalation : If person breathes in large amounts of material, move the exposed person to fresh air at once. If breathing has

stopped, perform artificial respiration. Keep the person warm and at rest. Get medical attention as soon as

possible.

Skin contact : If the material comes in contact with the skin, wash the contaminated skin with soap and water promptly. If the

material penetrates through clothing, remove the clothing and wash the skin with soap and water promptly. If

irritation persists after washing, get medical attention immediately.

Ingestion : If material has been swallowed, do not induce vomiting. Get medical attention immediately.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

 Inhalation
 : No known significant effects or critical hazards.

 Skin contact
 : No known significant effects or critical hazards.

 Ingestion
 : Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following: pain or irritation, watering, redness.

Inhalation : Adverse symptoms may include the following: respiratory tract irritation, coughing.

Skin contact: Adverse symptoms may include the following: irritation, redness.

Ingestion: No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested

or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the

person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use water spray to cool fire exposed surfaces and to protect personnel. Foam, dry chemical or

water spray (fog) to extinguish fire.

Unsuitable extinguishing media

Specific hazards arising from the chemical

Toxic fumes gases or vapors may evolve on burning.

Hazardous thermal decomposition products

Decomposition products may include the following materials:

Sulfur oxides metal oxide/oxides

Special protective actions for fire-fighters

Sulfur oxides

When fighting fires wear full turnout gear and self contained breathing apparatus. Water may cause splattering. Material floats on water.

Special protective equipment for fire-fighters

Not applicable.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Keep unnecessary ar

: Keep unnecessary and unprotected personnel from entering. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Methods and materials for containment and cleaning up

Spill : Contain with dikes or absorbent to prevent migration to sewers/streams. Take up small spill with dry chemical absorbent; large spills may require pump or vacuum prior to absorbent. May require excavation of severely

contaminated soil.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest.

Advice on general occupational hygiene

 Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

Conditions for safe storage, including any incompatibilities

: Store in closed container away from all ignition sources. Handling temperatures should not exceed 175°F (80°C). Wash thoroughly after handling. Odorous and toxic fumes may form from the decomposition of this product if stored at excessive temperatures for extended periods of time. Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Boric acid	ACGIH TLV (United States, 3/2012).
	STEL: 6 mg/m³ 15 minutes. Form: Inhalable fraction
	TWA: 2 mg/m³ 8 hours. Form: Inhalable fraction
Calcium dihydroxide	OSHA PEL (United States, 6/2010).
,	TWA: 5 mg/m³ 8 hours. Form: Respirable fraction
	TWA: 15 mg/m³ 8 hours. Form: Total dust
	ACGIH TLV (United States, 3/2012).
	TWA: 5 mg/m³ 8 hours.
	NIOSH REL (United States, 1/2013).
	TWA: 5 mg/m³ 10 hours.

Appropriate engineering controls

: Use only with adequate ventilation.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection Skin protection

: Recommended: Splash goggles and a face shield, where splash hazard exists.

Hand protection

Body protection

: 4 - 8 hours (breakthrough time): Nitrile gloves.: Recommended: Long sleeved coveralls.

Other skin protection : Recommended: Impervious boots.

Respiratory protection

: If ventilation is inadequate, use a NIOSH-certified respirator with an organic vapor cartridge and P95 particulate filter.

Section 9. Physical and chemical properties

<u>Appearance</u>		Relative density	: 0.96
Physical state	: Semi-solid gel, smooth texture	Evaporation rate	: <1 (Butyl acetate = 1)
Color	: Dark grey.	Solubility	: Insoluble in the following materials: cold water and hot water.
Odor	: Mild petroleum.	Solubility in water	: Insoluble
Odor threshold	: Not available.	Partition coefficient: n-	: Not available.
рН	: Not available.	octanol/water	
Melting point	: Not available.	Auto-ignition temperature	: Not available.
Boiling point	: Not available.	Decomposition temperature	: Not available.
Flash point	: Closed cup: 232°C (449.6°F)	SADT	: Not available.
Flammability	: Not available.	Viscosity	: Not available.
Lower and upper	: Lower: 0.9%	Vapor pressure	: <0.13 kPa (<1 mm Hg) (68°F)
explosive (flammable) limits	Upper: 7%	Vapor density	: >5 [Air = 1]

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : See handling and storage section.

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials and acids.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Calcium dihydroxide	LD50 Oral	Rat	7340 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Boric acid	Skin - Mild irritant	Human	-	72 hours 15 mg Intermittent	-
Calcium dihydroxide	Eyes - Severe irritant	Rabbit	-	10 mg	-

Sensitization

Skin : There is no data available.

Respiratory : There is no data available.

Mutagenicity

There is no data available.

Carcinogenicity

There is no data available.

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Calcium dihydroxide	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

Information on the likely routes of

exposure

: Dermal contact. Eye contact. Inhalation. Ingestion.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Boric acid	Acute LC50 84.28 mg/L Marine water	Crustaceans - Americamysis bahia - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 133000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 100000 μg/l Fresh water	Fish - Ptychocheilus lucius - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 6000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 2100 µg/l Fresh water	Fish - Oncorhynchus mykiss	87 days
Calcium dihydroxide	Acute LC50 33884.4 µg/l Fresh water	Fish - Clarias gariepinus - Fingerling	96 hours

Persistence and degradability

There is no data available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Boric acid	-1.09	-	low

Mobility in soil

Soil/water partition coefficient (Koc)

: There is no data available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Section 14. Transport information

DOT IDENTIFICATION NUMBER Not applicable.

DOT proper shipping name

Not applicable.

DOT Hazard Class(es) Not applicable.

PG Not applicable.

DOT EMER. RESPONSE GUIDE NO. Not applicable

Section 15. Regulatory information

U.S. Federal regulations

: TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Air Act Section 602 Class I Substances Clean Air Act Section 602 Class II Substances : Not listed : Not listed

DEA List I Chemicals (Precursor Chemicals) DEA List II Chemicals (Essential Chemicals)

: Not listed : Not listed

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)

: Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Immediate (acute) health hazard

Composition/information on ingredients

Name	%	hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Boric acid Calcium dihydroxide	-	No. No.	-	No. No.	No. Yes.	Yes. No.

SARA 313 This product (does/not) contain toxic chemicals subject to the reporting requirements of SARA Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

Product name	CAS number	%
Not applicable.		

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

HD MOLY XTREME GREASE

Massachusetts : The following components are listed: Molybdenum disulphide; Calcium dihydroxide

New York : None of the components are listed.

The following components are listed: BORATE COMPOUNDS, Inorganic; Calcium dihydroxide **New Jersey**

Pennsylvania The following components are listed: Calcium dihydroxide

California Prop. 65 : No products were found.

Section 16. Other information

Revision date : 01/15/2014 Supersedes : 02/14/2011

Revised Section(s) : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16. Prepared by : KMK Regulatory Services Inc.

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