

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

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SECTION 1: Identification

1.1. Identification

Product name : Oil Enhancer

Product code : 203000, 203000C, 203100, 203100C

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

Use of the substance/mixture : Motor oil additive

1.3. Details of the supplier of the safety data sheet

Manufacturer

R.B. Howes & Co., Inc. 3511 North Ohio Street Wichita, KS 67219 - USA T 401-294-5500, 1-800 GET HOWES (438-4693)

1.4. Emergency telephone number

Emergency number : CHEMTREC 1 (800) 424-9300 / 703-527-3887

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

GHS classification

Eye Irrit. 2A

2.2. Label elements

GHS labelling

Hazard pictograms (GHS)



GHS07

Signal word (GHS) : Warning

Hazard statements (GHS) : Causes serious eye irritation

Precautionary statements (GHS) : Wash hands thoroughly after handling. Wear face protection, eye protection. If in eyes: Rinse

cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and isopropyl) esters, zinc salts	(n° CAS.) 84605-29-8	< 2

^{*}Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation

: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact

: If skin irritation occurs: Wash skin with plenty of water. Obtain medical attention if irritation persists.

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First-aid measures after eve contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after indestion : Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Get medical advice/attention if you feel unwell.

Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May cause irritation to the respiratory tract.

Symptoms/effects after skin contact May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the

skin.

Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and Symptoms/effects after eye contact

tear production, with marked redness and swelling of the conjunctiva.

: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and Symptoms/effects after ingestion

diarrhea

Indication of any immediate medical attention and special treatment needed

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Carbon dioxide. Foam. Dry powder.

Unsuitable extinguishing media Do not use water. Water may cause frothing.

Special hazards arising from the substance or mixture

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon. Oxides of

nitrogen. Oxides of zinc. Hydrocarbons. Hydrogen sulfide. Mercaptans. Sulfides. Toxic fumes.

Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory

protection (SCBA).

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures

: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.1.1. For non-emergency personnel

No additional information available

6.1.2 For emergency responders

No additional information available

6.2 **Environmental precautions**

Prevent entry to sewers and public waters.

Methods and material for containment and cleaning up

For containment : Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear

recommended personal protective equipment.

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

Precautions for safe handling

Hygiene measures

: Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources Precautions for safe handling

of ignition. Avoid contact with skin and eyes. Avoid breathing vapour or mist. Do not swallow.

Handle and open container with care. When using do not eat, drink or smoke. : Wash contaminated clothing before reuse. Always wash hands after handling the product.

Conditions for safe storage, including any incompatibilities

: Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool area. Storage conditions

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and isopropyl) esters, zinc salts (84605-29-8)

Not applicable

8.2. Exposure controls

Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below

No data available

No data available

: No data available

recommended exposure limits. Ensure good ventilation of the work station.

Hand protection : Wear suitable gloves.

Eye protection : Wear eye/face protection.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection

must be based on known or anticipated exposure levels, the hazards of the product and the

safe working limits of the selected respirator.

Environmental exposure controls : Avoid release to the environment.

Other information : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or

smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid
Colour : Amber

Petroleum-like odor Odour Odour threshold : No data available рΗ No data available Melting point No data available : No data available Freezing point Boiling point No data available : > 188 °C (> 370 °F) Flash point Relative evaporation rate (butylacetate=1) No data available Flammability (solid, gas) : No data available Vapour pressure : No data available Relative vapour density at 20 °C Heavier than air

Water: insoluble in water Solubility Partition coefficient n-octanol/water No data available Auto-ignition temperature No data available Decomposition temperature No data available No data available Viscosity, kinematic Viscosity, dynamic No data available Explosive limits : No data available Explosive properties No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Oxidising properties

Relative density

Specific gravity / density

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

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10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat. Incompatible materials.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Oxides of nitrogen. Oxides of zinc. Hydrocarbons. Hydrogen sulfide. Mercaptans. Sulfides. Toxic fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified.

Acute toxicity (dermal) : Not classified.

Acute toxicity (inhalation) : Not classified.

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and isopropyl) esters, zinc salts (84605-29-8)		
LD50 oral rat	3200 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
ATE CA (oral)	3200 mg/kg bodyweight	
Skin corrosion/irritation	: Not classified.	

Serious eye damage/irritation : Not classified.

Respiratory or skin sensitisation : Not classified.

Germ cell mutagenicity : Not classified.

Carcinogenicity : Not classified.

Reproductive toxicity : Not classified.

STOT-single exposure : Not classified.

: Not classified.

STOT-repeated exposure

Aspiration hazard : Not classified.

SECTION 12: Ecological information

12.1. Toxicity

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and isopropyl) esters, zinc salts (84605-29-8)		
LC50 fish 1	10 - 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 Daphnia 1	0.1 - 1 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC50 fish 2	38 mg/l (Exposure time: 96 h - Species: Pimephales promelas)	

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

No additional information available

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SECTION 14: Transport information

Department of Transportation (DOT) and Transportation of Dangerous Goods (TDG)

In accordance with DOT/TDG

Not regulated

Transport by sea

This product is currently not packaged to comply with IMDG regulations. It is not intended to be shipped by sea.

Transport by air

This product is currently not packaged to comply with IATA regulations. It is not intended to be shipped by air.

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

15.2. International regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Revision date : 03/01/2019 Other information : None.

Prepared by : Nexreg Compliance Inc.

www.Nexreg.com

NFPA health hazard : 1
NFPA fire hazard : 1
NFPA reactivity : 0





SDS HazCom 2012 - WHMIS 2015 (NexReg) - Section 15

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