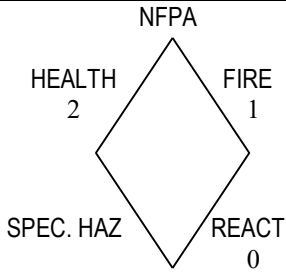


MATERIAL SAFETY DATA SHEET

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Section 1 - Chemical Product and Company Identification

PRODUCT NAME: HYPOID GEAR OIL ADDITIVE
CAS NUMBER:
CHEMICAL NAME:
MSDS NUMBER: BOP-E-3-600

CROWN AUTOMOTIVE SALES CO., INC. 83 Enterprise Drive Marshfield, MA 02050 EMERGENCY TELEPHONE NUMBER (CHEMTREC): (800) 424-9300 or (703) 527-3887 INFORMATION TELEPHONE NUMBER: (800) 853-8698 DATE PREPARED: SEPT-2000 SUPERSEDES: Sep-98	NFPA  HEALTH 2 FIRE 1 SPEC. HAZ REACT 0
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Section 2 - Composition / Information on Ingredients

CAS NUMBER	HAZARDOUS COMPONENT	NTP	IARC	SUB-PART Z	SARA 313	OSHA PEL	ACGIH TLV	OTHER LIMITS	PERCENT
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic	N	N	N	N	N/D	N/D		35 - 85
61791-24-0	Ethoxylated alkylamines	N	N	N	N	N/D	N/D		15 - 45

This formulation is a Trade Secret. The other proprietary components in this product are not considered hazardous under 29 - CFR 1910 - 1200. Full disclosure is available only to qualified medical personnel.

Section 3 - Hazards Identification

ROUTE(S) OF ENTRY: Primarily by way of eyes, skin and inhalation.

HEALTH HAZARDS (ACUTE AND CHRONIC):

EYES: May be slightly irritating.

SKIN: Based on testing of similar materials, may be slightly irritating.

INHALATION: Based on testing of similar materials, may be irritating to the upper respiratory tract.

INGESTION: Based on testing of similar materials, this substance may cause gastrointestinal irritation.

SIGNS OF OVEREXPOSURE: Respiratory irritation, dizziness, nausea, loss of consciousness

OTHER HEALTH WARNINGS: None noted

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Section 4 - First Aid Measures

EYE CONTACT: Remove contact lenses immediately. Flush thoroughly with water. If irritation occurs, call a physician.

SKIN CONTACT: Remove material from skin by patting or blotting with a clean cloth. Wash exposed areas with soap and water for at least 15 minutes. Do not reuse clothing soaked with this product until laundered. Discard all leather articles which have been soaked with this product. Seek medical attention if irritation persists.

INHALATION: Overexposure by inhalation is unlikely, but should it occur, remove individual to fresh air and administer oxygen, if properly trained.

INGESTION: Do not induce vomiting. If vomiting occurs spontaneously, keep head below the hips to prevent aspiration of material into the lungs. If the individual is unconscious, monitor pulse and breathing. If breathing stops, administer artificial respiration immediately. Never administer anything by mouth to an unconscious or convulsing person. Seek medical attention immediately.

Section 5 - Fire-Fighting Measures

FLASH POINT: 150 °C **FLAMMABLE LIMITS:** N/D **LEL:** N/D **UEL:** N/D

EXTINGUISHING MEDIA: Dry chemical, foam, carbon dioxide. Water fogs should be used to cool containers exposed to extreme heat.

SPECIAL FIRE FIGHTING PROCEDURES: Wear full protective clothing and NIOSH approved self-contained breathing apparatus with full face piece, operated in the positive pressure mode.

UNUSUAL FIRE FIGHTING PROCEDURES: None noted.

Section 6 - Accidental Release Measures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

FOR LARGE SPILLS: Stop leak at source if safe to do so. Dike and contain material. Remove all individuals from area who have not been properly trained in emergency medical response. Transfer materials into salvage vessels for disposal. Residual material may be picked up with flame retardant treated absorbents such as diatomaceous earth. Any water used in washing down the spill area must be disposed of, along with other material, according to all applicable regulations.

FOR SMALL SPILLS: Pick up with flame retardant treated absorbant and dispose of according to all applicable regulations.

This product may be classified as an oil under section III of the Clean Water Act. Spills entering surface waters or any water courses or sewers entering surface waters that cause a sheen, must be reported to the Coast Guard toll free number (800) 424-8802. In case of accident or road spill, notify Chemtrec. (800) 424-9300.

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Section 7 - Handling and Storage

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep material away from open flames and sources of extreme heat. Store in a cool (<60 °C) area.

OTHER PRECAUTIONS: None noted.

Section 8 - Exposure Controls / Personal Protection

VENTILATION REQUIREMENTS: Ventilation should be designed in accordance with good engineering practices.

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION: If operating in confined or poorly ventilated areas with insufficient oxygen, use only OSHA/NIOSH approved respirators according to manufacturers directions and the provisions under 29 CFR 1910.134.

EYE PROTECTION: Splashproof goggles or face shield (ANSI Z87.1 or approved equivalent).

DERMAL PROTECTION: Protect all exposed skin from contact. Use gloves or neoprene or other chemically inert material. Use chemically resistant apron or other chemically impervious clothing to avoid prolonged or repeated skin contact.

OTHER: Eyewash and safety showers should be available in areas where this product is handled.

Section 9 - Physical and Chemical Properties

SOLUBILITY IN WATER:	Negligible	SPECIFIC GRAVITY (H₂O = 1)	0.91
APPEARANCE AND ODOR:	Amber liquid with an amine-like odor		
OTHER INFORMATION:			

Section 10 - Stability and Reactivity

STABILITY: Stable.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Combustion gases may contain CO, CO₂, oxides of nitrogen and phosphorous and, depending upon the conditions of combustion, ammonia.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY:

MATERIALS TO AVOID: Avoid contact with strong acids, strong bases and strong oxidizing agents.

Section 11 - Toxicological Information

ACUTE EYE EFFECTS: N/D

ACUTE DERMAL EFFECTS: N/D

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ACUTE INHALATION EFFECTS: N/D

ACUTE ORAL EFFECTS: N/D

Section 12 - Ecological Information

No information available

Section 13 - Disposal Considerations

WASTE DISPOSAL METHOD: If reclamation is not possible, dispose of material in accordance with all federal, state and local regulations.

Section 14 - Transport Information

DOT TRANSPORTATION DATA:

PROPER SHIPPING NAME: Not regulated

HAZARD CLASS: Not regulated

IDENTIFICATION NUMBER: Not regulated

PACKING GROUP:

Section 15 - Regulatory Information

CERCLA REPORTABLE QUANTITY: Not reportable under 40 CFR 304.2

RCRA STATUS: Not subject to the 40 CFR Part 268.30 land ban on the disposal of certain hazardous wastes.

SARA TITLE III STATUS:

SECTION 311/312: Immediate (acute) health effects.

SECTION 313: 65-75% bis(2-hydroxyethyl)soya amine

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Section 16 - Other Information

ADDITIONAL MANUFACTURER WARNINGS:

Store only in closed, properly labeled containers.

Do not use cutting or welding torches on drums which contained this product unless they have been properly cleaned and purged.

Use only with adequate ventilation.

Do not eat, drink or smoke in work areas. Wash hands with soap and water prior to eating or using toilet facilities and at the end of the work shift. Launder contaminated clothing prior to reuse.

OTHER PRECAUTIONS AND COMMENTS:

N/A = Not Applicable

N/D = Not Determined

N/E = Not Established

S = Suspected

ST = Short Term Exposure Limit

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**** END MSDS ****