

# Safety Data Sheet: GEAR-GUARD

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** GEAR-GUARD

**Recommended use** Lubricant

**Information on Manufacturer**

Partmaster, Div of NCH Corp.

P.O. Box 655326

Dallas, TX 75265-5326

**Product Code** 5187

**Chemical nature** Solvent mixture

**Emergency Telephone Number**

CHEMTREC® 800-424-9300

## 2. HAZARD IDENTIFICATION

**Color** black

**Physical State** Liquid

**Odor** Mild solvent

### GHS

#### Classification

##### Physical Hazards

Flammable aerosols

Category 2

Gases under pressure

Category 1

##### Health Hazard

Aspiration Toxicity

Category 1

Skin Corrosion/Irritation

Category 2

Serious Eye Damage/Eye Irritation

Category 2

Skin Sensitization

Category 1

Reproductive Toxicity

Category 1B

Carcinogenicity

Category 2

Specific target organ systemic toxicity (single exposure)

Category 3

Specific target organ systemic toxicity (repeated exposure)

Category 2

##### Other hazards

None

#### Labeling

##### Signal Word

DANGER



#### Hazard Statements

H223 - Flammable aerosol

H336 - May cause drowsiness or dizziness

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H320 - Causes eye irritation

H360 - May damage fertility or the unborn child

H351 - Suspected of causing cancer

H373 - May cause damage to organs through prolonged or repeated exposure

H280 - Contains gas under pressure; may explode if heated

#### Precautionary Statements

P202 - Do not handle until all safety precautions have been read and understood

P210 - Keep away from heat, sparks, open flames or hot surfaces.

P251 - Pressurized container: Do not pierce or burn, even after use

P260 - Do not breathe mist.

P271 - Use in a well-ventilated area.

P270 - Do not eat, drink or smoke when using this product

P280 - Wear protective gloves, protective clothing and eye protection.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace

P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P312 - Call a physician if unwell.

P302+ P352 - IF ON SKIN: Wash with plenty of soap and water

P333 - If skin irritation or rash occurs get medical attention.

P362 - Take off contaminated clothing and wash before reuse

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists, get medical attention.

P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

P403 - Store in a well-ventilated place

P501 - Dispose of contents and container in accordance with applicable regulations.

2 % of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Asphalt	8052-42-4	15-40
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	64742-52-5	10-30
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	10-30
n-Propyl bromide	106-94-5	10-30
Propane	74-98-6	3-7
Butane	106-97-8	1-5
Polybutene	9003-29-6	1-5

### 4. FIRST AID MEASURES

<b>General advice</b>	Avoid breathing vapors, mist, or gas. Avoid contact with skin, eyes and clothing.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.
<b>Inhalation</b>	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
<b>Ingestion</b>	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.
<b>Notes to physician</b>	Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways. May cause sensitization of susceptible persons.

### 5. FIRE-FIGHTING MEASURES

<b>Flash Point</b>	> 275 °F / > 135 °C	<b>Method</b>	Seta closed cup
<b>Flammability Limits in Air % Mixture.</b>		<b>Upper</b>	9.5
<b>Suitable Extinguishing Media</b>			
Foam. Alcohol-resistant foam. Water spray. Carbon dioxide (CO2). Dry chemical.			
<b>Unsuitable Extinguishing Media</b>			
No information available.			
<b>Specific hazards arising from the chemical</b>			
Extremely flammable. Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Flame extension: >24 inches / 60 cm and Burnback: 0 inch / 0 cm. Material can create slippery conditions.			
<b>Protective Equipment and Precautions for Firefighters</b>			
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.			
<b>Aerosol Level (NFPA 30B) -</b>	3	<b>Method</b>	Seta closed cup
<b>NFPA</b>	<b>Health 2</b>	<b>Upper</b>	9.5
<b>HMIS</b>	<b>Health 2</b>	<b>Lower</b>	1.8
<b>Flammability 4</b>		<b>Instability 0</b>	
<b>Flammability 4</b>		<b>Instability 0</b>	

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
<b>Environmental Precautions</b>	Do not flush into surface water or sanitary sewer system.
<b>Methods for Containment</b>	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
<b>Methods for Cleaning Up</b>	Use clean non-sparking tools to collect absorbed material. Pick up and transfer to properly labeled containers.
<b>Neutralizing Agent</b>	Not applicable.

### 7. HANDLING AND STORAGE

<b>Handling</b>	Keep away from open flames, hot surfaces and sources of ignition. Avoid breathing vapors, mist or gas. Avoid contact with skin, eyes and clothing.
<b>Storage</b>	Keep away from heat and sources of ignition. Keep in a dry, cool and well-ventilated place.
<b>Storage Temperature</b>	Minimum 40 °F / 4 °C
<b>Storage Conditions</b>	Indoor X      Outdoor Heated      Maximum 120 °F / 49 °C      Refrigerated

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH
Asphalt	TWA: 0.5 mg/m <sup>3</sup>	No data available	Ceiling: 5 mg/m <sup>3</sup>
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	TWA: 5 mg/m <sup>3</sup> ; STEL: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	IDLH: 2,500 mg/m <sup>3</sup> ; STEL 10 mg/m <sup>3</sup> ; TWA: 5 mg/m <sup>3</sup>
Solvent naphtha (petroleum), medium aliphatic	No data available	No data available	No data available
n-Propyl bromide	TWA: 10 ppm	No data available	No data available
Propane	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup>	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup>
Butane	STEL: 1000 ppm	No data available	TWA: 800 ppm TWA: 1900 mg/m <sup>3</sup>
Polybutene	5 mg/m <sup>3</sup> as oil mist	10 mg/m <sup>3</sup> as oil mist	No data available

**Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

**Personal Protective Equipment**
**Eye/Face Protection**

Safety glasses with side-shields.

**Skin Protection**

Wear suitable protective clothing, Impervious gloves.

**Respiratory Protection**

In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**General Hygiene Considerations**

Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid	<b>Viscosity</b>	Slight Viscous
<b>Color</b>	black	<b>Odor</b>	Mild solvent
<b>Odor Threshold</b>	Not applicable	<b>Appearance</b>	Opaque
<b>pH</b>	Not applicable	<b>Specific Gravity</b>	0.89
<b>Evaporation Rate</b>	28.5 (Butyl acetate=1)	<b>Percent Volatile (Volume)</b>	73.9
<b>VOC Content (%)</b>	72.6	<b>VOC Content (g/L)</b>	646
<b>Vapor Pressure</b>	1957.2 mmHg @ 70°F	<b>Vapor Density</b>	1.8 (Air = 1.0)
<b>Solubility</b>	Negligible	<b>n-Octanol/Water Partition</b>	No data available
<b>Melting Point/Range</b>	No data available	<b>Decomposition Temperature</b>	No data available
<b>Boiling Point/Range</b>	100 °F / 38 °C	<b>Flammability (solid, gas)</b>	No data available
<b>Flash Point</b>	> 275 °F / > 135 °C	<b>Method</b>	Seta closed cup
<b>Autoignition Temperature</b>	No information available.		
<b>Flammability Limits in Air %</b>	Mixture.	<b>Upper 9.5 Lower 1.8</b>	

## 10. STABILITY AND REACTIVITY

**Chemical Stability**

Stable. Hazardous polymerization does not occur.

**Conditions to Avoid**

Keep away from open flames, hot surfaces, and sources of ignition

**Incompatible Products**

Strong oxidizing agents, Strong acids, Strong bases, Powdered metals, Amines.

**Hazardous Decomposition Products**

Carbon oxides, Nitrogen oxides (NOx), Hydrogen bromide, Bromine.

**Possibility of Hazardous Reactions**

None under normal processing

## 11. TOXICOLOGICAL INFORMATION

**Product Information**

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

<b>Oral LD50</b>	2,709.00
<b>Dermal LD50</b>	1,799.00
<b>Inhalation LC50</b>	
<b>Gas</b>	747.00
<b>Mist</b>	7.00
<b>Vapor</b>	337.00

**Principle Route of Exposure**

Eye contact, Skin contact, Inhalation.

**Primary Routes of Entry**

Inhalation, Skin Absorption.

**Acute Effects**
**Eyes**

Causes eye irritation.

**Skin**

Causes skin irritation. May be absorbed through the skin in harmful amounts. May cause allergic

<b>Inhalation</b>	skin reaction. May cause irritation of respiratory tract. Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. May be fatal if inhaled in large quantities.
<b>Ingestion</b>	Ingestion may cause irritation to mucous membranes. Aspiration hazard if swallowed - can enter lungs and cause damage.
<b>Chronic Toxicity</b>	May cause sensitization by skin contact. Prolonged skin contact may defat the skin and produce dermatitis. Repeated and prolonged exposure to solvents may cause brain and nervous system damage. Liver and kidney injuries may occur. Contains a known or suspected carcinogen. Contains a known or suspected reproductive toxin.
<b>Target Organ Effects</b>	Liver, Kidney, Central nervous system, Peripheral Nervous System (PNS), Blood, Skin, Eyes, Respiratory system, Immune system, Reproductive System.
<b>Aggravated Medical Conditions</b>	Kidney disorders, Liver disorders, Skin disorders, Neurological disorders, Blood disorders, Respiratory disorders.

## Component Information

## Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Asphalt	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	no data available	no data available	no data available
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	> 5000 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	no data available	no data available	no data available
Solvent naphtha (petroleum), medium aliphatic	> 5000 mg/kg ( Rat )	= 3000 mg/kg ( Rabbit )	> 5.28 mg/L ( Rat ) 4 h	no data available	no data available
n-Propyl bromide	no data available	no data available	= 253 g/m <sup>3</sup> ( Rat ) 30 min	no data available	no data available
Propane	no data available	no data available	= 658 mg/L ( Rat ) 4 h	no data available	no data available
Butane	no data available	no data available	= 658 g/m <sup>3</sup> ( Rat ) 4 h	no data available	no data available
Polybutene	no data available	no data available	no data available	no data available	no data available

## Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Asphalt	no data available	Skin sensitization	no data available	no data available	eyes, respiratory system (in animals: skin tumors), immune system
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	no data available	no data available	no data available	no data available	respiratory system
Solvent naphtha (petroleum), medium aliphatic	no data available	no data available	no data available	no data available	CNS, liver, kidneys
n-Propyl bromide	no data available	no data available	no data available	X	CNS, PNS, heart, liver, kidney, respiratory system, reproductive system
Propane	no data available	no data available	no data available	no data available	CNS, heart
Butane	no data available	no data available	no data available	no data available	CNS, heart
Polybutene	no data available	no data available	no data available	no data available	Heart, liver, kidney, lung

## Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Other
Asphalt	not applicable	Group 2B	not applicable	X	not applicable
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	not applicable				
Solvent naphtha (petroleum), medium aliphatic	not applicable				
n-Propyl bromide	not applicable				
Propane	not applicable				
Butane	not applicable				
Polybutene	not applicable				

## 12. ECOLOGICAL INFORMATION

## Product Information

No information available.

## Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Asphalt	no data available	no data available	no data available	no data available	>6
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO)	no data available	LC50 > 5000 mg/L <i>Oncorhynchus mykiss</i> 96 h	no data available	EC50> 1000 mg/L 48 h	N/A

extractable)					
Solvent naphtha (petroleum), medium aliphatic	EC50 = 450 mg/L Pseudokirchneriella subcapitata 96 h	LC50 = 800 mg/L Pimephales promelas 96 h	no data available	EC50> 100 mg/L 48 h	N/A
n-Propyl bromide	no data available	LC50 = 67.3 mg/L Pimephales promelas 96 h	no data available	no data available	2.1
Propane	no data available	no data available	no data available	no data available	2.3
Butane	no data available	no data available	no data available	no data available	2.89
Polybutene	no data available	no data available	no data available	no data available	N/A

**Persistence and Degradability** No information available.  
**Bioaccumulation** No information available.  
**Mobility** No information available.

### 13. DISPOSAL CONSIDERATIONS

**Product Disposal** Dispose of in accordance with local regulations.  
**Container Disposal** Contents under pressure. Do not puncture. Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal.

### 14. TRANSPORT INFORMATION

<b>DOT</b>	DOT
<b>Proper Shipping Name</b>	Consumer commodity
<b>Hazard Class</b>	ORM-D
<b>Description</b>	Consumer commodity, ORM-D
<b>TDG</b>	
<b>Proper shipping name</b>	Aerosols
<b>Hazard Class</b>	2.1
<b>UN-No</b>	UN1950
<b>ICAO</b>	
<b>UN-No</b>	UN1950
<b>Proper Shipping Name</b>	Aerosols
<b>Hazard Class</b>	2.1
<b>Shipping Description</b>	UN1950, Aerosols, 2.1 (LTD QTY)
<b>IATA</b>	
<b>UN-No</b>	UN1950
<b>Proper Shipping Name</b>	Aerosols, flammable
<b>Hazard Class</b>	2.1
<b>ERG Code</b>	10L
<b>Shipping Description</b>	UN1950, Aerosols, flammable, 2.1 (LTD QTY)
<b>IMDG/IMO</b>	
<b>Proper Shipping Name</b>	Aerosols
<b>Hazard Class</b>	2
<b>UN-No</b>	UN1950
<b>EmS No.</b>	F-D, S-U
<b>Shipping Description</b>	UN1950, Aerosols, 2.1 (LTD QTY)

### 15. REGULATORY INFORMATION

<b>Inventories</b>	
<b>TSCA</b>	Complies
<b>DSL</b>	Complies
<b>U.S. Federal Regulations</b>	

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	Yes	Yes	No

**CERCLA**

Component	Hazardous Substances RQs	CERCLA EHS RQs
Asphalt	Not applicable	Not applicable
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	Not applicable	Not applicable
Solvent naphtha (petroleum), medium aliphatic	Not applicable	Not applicable
n-Propyl bromide	Not applicable	Not applicable
Propane	Not applicable	Not applicable
Butane	Not applicable	Not applicable
Polybutene	Not applicable	Not applicable

**U.S. State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals

Component	CAS-No	California Prop. 65
Ethyl benzene	100-41-4	carcinogen
n-Propyl bromide	106-94-5	developmental toxicity male reproductive toxicity female reproductive toxicity
1,4-Dioxane	123-91-1	carcinogen
Ethyl acrylate	140-88-5	carcinogen
Lead	7439-92-1	carcinogen developmental toxicity male reproductive toxicity female reproductive toxicity
Arsenic	7440-38-2	carcinogen
Cadmium	7440-43-9	carcinogen developmental toxicity
Ethylene oxide	75-21-8	carcinogen developmental toxicity male reproductive toxicity female reproductive toxicity
Propylene oxide	75-56-9	carcinogen
Naphthalene	91-20-3	carcinogen
Cumene	98-82-8	carcinogen
Bitumens, extracts of steam refined and air-refined	Mixture	Carcinogen

**16. OTHER INFORMATION**

Prepared By	Adrienne McKee
Supercedes Date	04/14/2011
Issuing Date	10/08/2013
Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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