

Safety Data Sheet: GEAR-GUARD

Supersedes Date 04/14/2011

Issuing Date 10/08/2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name GEAR-GUARD
Recommended use Lubricant
Information on Manufacturer
Partsmaster, 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
Gases under pressure

Category 2
Category 1

Health Hazard

Aspiration Toxicity
Skin Corrosion/Irritation
Serious Eye Damage/Eye Irritation
Skin Sensitization
Reproductive Toxicity
Carcinogenicity
Specific target organ systemic toxicity (single exposure)
Specific target organ systemic toxicity (repeated exposure)

Category 1
Category 2
Category 2
Category 1
Category 1B
Category 2
Category 3
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

General advice	Avoid breathing vapors, mist, or gas. Avoid contact with skin, eyes and clothing.
Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.
Skin Contact	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.
Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Ingestion	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.
Notes to physician	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

Flash Point	> 275 °F / > 135 °C	Method	Seta closed cup
Flammability Limits in Air % Mixture.		Upper 9.5	Lower 1.8
Suitable Extinguishing Media	Foam. Alcohol-resistant foam. Water spray. Carbon dioxide (CO ₂). Dry chemical.		
Unsuitable Extinguishing Media	No information available.		
Specific hazards arising from the chemical	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.		
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.		
Aerosol Level (NFPA 30B) -	3		
NFPA	Health 2	Flammability 4	Instability 0
HMIS	Health 2	Flammability 4	Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	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.
Environmental Precautions	Do not flush into surface water or sanitary sewer system.
Methods for Containment	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).
Methods for Cleaning Up	Use clean non-sparking tools to collect absorbed material. Pick up and transfer to properly labeled containers.
Neutralizing Agent	Not applicable.

7. HANDLING AND STORAGE

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

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

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

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):

Oral LD50	2,709.00
Dermal LD50	1,799.00
Inhalation LC50	
Gas	747.00
Mist	7.00
Vapor	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

Inhalation	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.
Ingestion	Ingestion may cause irritation to mucous membranes. Aspiration hazard if swallowed - can enter lungs and cause damage.
Chronic Toxicity	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.
Target Organ Effects	Liver, Kidney, Central nervous system, Peripheral Nervous System (PNS), Blood, Skin, Eyes, Respiratory system, Immune system, Reproductive System.
Aggravated Medical Conditions	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 ³ (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 ³ (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	not applicable	not applicable	not applicable	not applicable
Solvent naphtha (petroleum), medium aliphatic	not applicable	not applicable	not applicable	not applicable	not applicable
n-Propyl bromide	not applicable	not applicable	not applicable	not applicable	not applicable
Propane	not applicable	not applicable	not applicable	not applicable	not applicable
Butane	not applicable	not applicable	not applicable	not applicable	not applicable
Polybutene	not applicable	not applicable	not applicable	not applicable	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 Oncorhynchus mykiss 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

DOT

Proper Shipping Name
Hazard Class
Description

DOT

Consumer commodity
 ORM-D
 Consumer commodity, ORM-D

TDG

Proper shipping name
Hazard Class
UN-No

Aerosols
 2.1
 UN1950

ICAO

UN-No
Proper Shipping Name
Hazard Class
Shipping Description

UN1950
 Aerosols
 2.1
 UN1950, Aerosols, 2.1 (LTD QTY)

IATA

UN-No
Proper Shipping Name
Hazard Class
ERG Code
Shipping Description

UN1950
 Aerosols, flammable
 2.1
 10L
 UN1950, Aerosols, flammable, 2.1 (LTD QTY)

IMDG/IMO

Proper Shipping Name
Hazard Class
UN-No
EmS No.
Shipping Description

Aerosols
 2
 UN1950
 F-D, S-U
 UN1950, Aerosols, 2.1 (LTD QTY)

15. REGULATORY INFORMATION

Inventories**TSCA**

Complies

DSL

Complies

U.S. Federal Regulations**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 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
Supersedes 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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