

Safety Data Sheet: METAL GROOM PLUS (1 GAL)

Supersedes Date 03/12/2014

Issuing Date 09/30/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name METAL GROOM PLUS (1 GAL)

Recommended use Solvent degreaser

Information on Manufacturer

Partsmaster, Div of NCH Corp.

P.O. Box 655326

Dallas, TX 75265-5326

Product Code PMC60015

Chemical nature Solvent mixture

Emergency Telephone Number

CHEMTREC® 800-424-9300

Telephone inquiry

800-336-0450

2. HAZARD IDENTIFICATION

Color Colorless

Physical State Liquid

Odor Ether-like

GHS

Classification

Physical Hazards

None

Health Hazard

Aspiration Toxicity

Acute Oral Toxicity

Acute Dermal Toxicity

Acute Inhalation Toxicity - Dusts and Mists

Skin Corrosion/Irritation

Carcinogenicity

Specific target organ systemic toxicity (single exposure)

Acute Aquatic Toxicity

Chronic Aquatic Toxicity

Other hazards

None

Category 1

Category 5

Category 5

Category 4

Category 3

Category 2

Category 3

Not classified for acute

Not classified chronic

Labeling

Signal Word

DANGER



Hazard Statements

H332 - Harmful if inhaled

H303 - May be harmful if swallowed

H313 - May be harmful in contact with skin

H336 - May cause drowsiness or dizziness

H304 - May be fatal if swallowed and enters airways

H351 - Suspected of causing cancer

Precautionary Statements

P201 - Obtain special instructions before use

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

P261 - Avoid breathing vapors or mists.

P271 - Use in a well-ventilated area.

P281 - Use personal protective equipment as required

P308 + P313 - IF exposed or concerned, get medical attention

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.

P301+ P310 - IF SWALLOWED: Immediately call a physician

P331 - DO NOT induce vomiting

P332 + P313 - If skin irritation occurs, get medical attention.

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

P501 - Dispose of contents and container to an approved waste disposal plant.

0 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Tetrachloroethylene	127-18-4	60-100

Heptane (n-)	142-82-5	3-7
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4. FIRST AID MEASURES

General advice	Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.
Skin Contact	Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
Inhalation	Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately.
Ingestion	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth.
Notes to physician	Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways.

5. FIRE-FIGHTING MEASURES

Flash Point	Does not flash °F / > 94 °C	Method	Seta closed cup
Flammability Limits in Air % Mixture.		Upper 6.7	Lower 1.05
Suitable Extinguishing Media			
Carbon dioxide (CO2). Dry chemical. Water spray. Foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.			
Specific hazards arising from the chemical			
Material can create slippery conditions. Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode.			
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.			
NFPA	Health 2	Flammability 0	Instability 0
HMIS	Health 2	Flammability 0	Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. 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	Pick up and transfer to properly labeled containers.
Neutralizing Agent	Not applicable.

7. HANDLING AND STORAGE

Handling	Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing.			
Storage	Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.			
Storage Temperature	Minimum	35 °F / 2 °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
Tetrachloroethylene	TWA: 25 ppm STEL: 100 ppm	TWA: 100 ppm Ceiling: 200 ppm	150 ppm
Heptane (n-)	TWA: 400 ppm STEL: 500 ppm	TWA: 500 ppm TWA: 2000 mg/m ³	750 ppm Ceiling: 440 ppm Ceiling: 1800 mg/m ³ TWA: 85 ppm TWA: 350 mg/m ³

Engineering Measures	Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment	
Eye/Face Protection	Chemical goggles should be worn when handling .
Skin Protection	Wear suitable protective clothing, Impervious gloves.
Respiratory Protection	In case of inadequate ventilation wear respiratory protection.
General Hygiene Considerations	Wear protective gloves/clothing. 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	Non viscous
Color	Colorless	Odor	Ether-like
Odor Threshold	Not applicable	Appearance	Transparent
pH	Not applicable	Specific Gravity	1.5
Evaporation Rate	>3 (Butyl acetate=1)	Percent Volatile (Volume)	100
VOC Content (%)	4	Vapor Pressure	18 mmHg @ 77°F
Vapor Density	>3.5 (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	250 °F / 121 °C
Flammability (solid, gas)	No data available	Method	Seta closed cup
Flash Point	Does not flash °F / > 94 °C		
Autoignition Temperature	No information available.		
Flammability Limits in Air %	Mixture.	Upper 6.7 Lower 1.05	

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	Heating can release hazardous gases
Incompatible Products	Strong oxidizing agents, Acids, Bases, Zinc, Aluminum, Potassium, Amines, Oxygen.
Hazardous Decomposition Products	Carbon oxides, Hydrogen chloride gas, Chlorine, Phosgene.
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

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

Oral LD50	No information available
Dermal LD50	No information available
Inhalation LC50	
Gas	No information available
Mist	No information available
Vapor	No information available

Principle Route of Exposure Inhalation, Skin contact, Eye contact.

Primary Routes of Entry Inhalation, Skin Absorption.

Acute Effects

Eyes	Severe eye irritant.
Skin	Severe skin irritant. May be absorbed through the skin in harmful amounts.
Inhalation	Irritating to mucous membranes. 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. Irregular cardiac activity. May cause cardiac arrhythmia.
Ingestion	Ingestion may cause irritation to mucous membranes. May cause central nervous system effects such as headache, dizziness, weakness, staggering gait, nausea, blurred vision, excitation, and in extreme cases, coma or death. Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways.

Chronic Toxicity Liver and kidney injuries may occur. Prolonged skin contact may defat the skin and produce dermatitis. Contains a known or suspected carcinogen. May cause irregular heartbeats, especially under conditions of stress. Excessive exposure may cause carboxyhemoglobinemia, thereby impairing the blood's ability to transport oxygen.

Target Organ Effects Respiratory system, Central nervous system, Central Vascular System, Kidney, Liver.

Aggravated Medical Conditions Respiratory disorders, Skin disorders, Kidney disorders, Liver disorders, Blood disorders, Neurological disorders.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Tetrachloroethylene	= 2629 mg/kg (Rat)	no data available	= 4000 ppm (Rat) 4 h	no data available	no data available
Heptane (n-)	no data available	= 3000 mg/kg (Rabbit)	= 103 g/m ³ (Rat) 4 h	no data available	no data available

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Tetrachloroethylene	no data available	no data available	no data available	no data available	liver, kidneys, eyes, central nervous system, respiratory system, skin,

Heptane (n-)	no data available	no data available	no data available	no data available	cardiovascular system skin, CNS, respiratory system, heart
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Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH	IARC	NTP	OSHA	Other
Tetrachloroethylene	A3	Group 2A	Reasonably Anticipated	X	not applicable

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Tetrachloroethylene	EC50 > 500 mg/L Pseudokirchneriella subcapitata 96 h	LC50 11.0 - 15.0 mg/L Lepomis macrochirus 96 h LC50 12.4 - 14.4 mg/L Pimephales promelas 96 h LC50 4.73 - 5.27 mg/L Oncorhynchus mykiss 96 h LC50 8.6 - 13.5 mg/L Pimephales promelas 96 h	EC50 = 100 mg/L 24 h EC50 = 112 mg/L 24 h EC50 = 120.0 mg/L 30 min	EC50 6.1 - 9.0 mg/L Daphnia magna 48 h	2.88
Heptane (n-)	no data available	LC50 = 375.0 mg/L Cichlid fish 96 h	no data available	EC50 10 mg/L Daphnia magna 24 h	4.66

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

Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name TOXIC LIQUIDS, ORGANIC, N.O.S.
Hazard Class 6.1
UN-No UN2810
Packing Group III
Reportable Quantity (RQ) Tetrachloroethylene, RQ kg = 53.65
Marine Pollutant This product contains a chemical which is listed as a marine pollutant according to DOT.
Description UN2810, TOXIC, LIQUID, ORGANIC, N.O.S., (TETRACHLOROETHYLENE), MARINE POLLUTANT
**Exceptions may exist under 49CFR 173.153

TDG

Hazard Class 6.1
UN-No UN2810
Packing Group III
Marine Pollutant This product contains a chemical which is listed as a marine pollutant according to TDG.

ICAO

UN-No UN2810
Proper Shipping Name TOXIC LIQUID, ORGANIC, N.O.S.
Hazard Class 6.1
Packing Group III
Shipping Description UN2810, TOXIC LIQUID, ORGANIC, N.O.S., (TETRACHLOROETHYLENE), 6.1, PG III

IATA

UN-No UN2810
Proper Shipping Name TOXIC LIQUID, ORGANIC, N.O.S.
Hazard Class 6.1
Packing Group III
Shipping Description UN2810, TOXIC LIQUID, ORGANIC, N.O.S., (TETRACHLOROETHYLENE), 6.1, PG III

IMDG/IMO

Proper Shipping Name TOXIC, LIQUID, ORGANIC, N.O.S.

Hazard Class	6.1
UN-No	UN2810
Packing Group	III
Marine Pollutant	This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO
Shipping Description	UN2810, TOXIC, LIQUID, ORGANIC, N.O.S., (TETRACHLOROETHYLENE), 6.1, PG III, MARINE POLLUTANT

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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Tetrachloroethylene	127-18-4	60-100	0.1

SARA 311/312 Hazardous Categorization

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

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Tetrachloroethylene	100 lb	Not applicable

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Component	CAS-No	California Prop. 65
Tetrachloroethylene	127-18-4	carcinogen

16. OTHER INFORMATION

Prepared By Christopher Drogin

Supersedes Date 03/12/2014

Issuing Date 09/30/2014

Reason for Revision No information available.

Glossary No information available.

List of References. No information available.

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