

Safety Data Sheet METAL GROOM PLUS

Supersedes Date 11/13/2014

Issuing Date 12/28/2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name METAL GROOM PLUS
Recommended use Solvent degreaser
Information on Manufacturer
 Partsmaster, Div of NCH Corp.
 P.O. Box 655326
 Dallas, TX 75265-5326

Product Code 0936
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

Acute Inhalation Toxicity - Gas
 Skin Corrosion/Irritation
 Serious Eye Damage/Eye Irritation
 Skin sensitization
 Carcinogenicity
 Specific target organ systemic toxicity (single exposure)
 Specific target organ toxicity (repeated exposure)

Category 4
 Category 2
 Category 2A
 Category 1
 Category 1B
 Category 3
 Category 2

Other hazards

None

LabelingSignal Word**DANGER**Hazard statements

H315 - Causes skin irritation
 H317 - May cause an allergic skin reaction
 H319 - Causes serious eye irritation
 H332 - Harmful if inhaled
 H336 - May cause drowsiness or dizziness
 H350 - May cause cancer
 H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary Statements

P202 - Do not handle until all safety precautions have been read and understood
 P280 - Wear protective gloves, protective clothing and eye protection.
 P264 - Wash face, hands and any exposed skin thoroughly after handling.
 P260 - Do not breathe vapors or mists.
 P271 - Use in a well-ventilated area.
 P272 - Contaminated work clothing should not be allowed out of the workplace
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
 P333 + P313 - 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.
 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.
 P308 + P313 - IF exposed or concerned, get medical attention
 P501 - Dispose of contents and container in accordance with applicable local regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %
Tetrachloroethylene	127-18-4	60-100
Methylene chloride	75-09-2	10-30

*The exact percentage (concentration) of composition has been withheld as a trade secret

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	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	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	May cause sensitization of susceptible persons.

5. FIRE-FIGHTING MEASURES

Flash Point	> 201 °F / > 94 °C	Method	Tag closed cup	
Flammability Limits in Air %:	Mixture.	Upper:	23	Lower: 13
Suitable Extinguishing Media	Carbon dioxide (CO ₂). 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, NOHSC (approved or equivalent) and full protective gear.			
NFPA	Health 2	Flammability 1	Instability 0	
HMIS	Health 2	Flammability 1	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
Methylene chloride	TWA: 50 ppm	TWA: 25 ppm STEL: 125 ppm	2300 ppm

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Engineering control measures should be used in preference to personnel protective equipment wherever possible.
Personal Protective Equipment	
Eye/Face Protection	Tightly fitting safety goggles.
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	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	1.58
Evaporation Rate	5.2 (Butyl acetate=1)	Percent Volatile (Volume)	100
VOC Content (%)	0.4	VOC Content (g/L)	0
Vapor Pressure	63.2 mmHg @ 70°F	Vapor Density	3.2 (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	208 °F / 98 °C	Flammability (solid, gas)	No data available
Flash Point	> 201 °F / > 94 °C	Method	Tag closed cup
Autoignition Temperature	No information available.		
Flammability Limits in Air %:	Mixture	Upper: 23 Lower: 13	

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, Aluminum, Oxygen, Peroxides, Reactive metals, Alkali metals, Potassium, Magnesium, Zinc.
Decomposition Temperature	No data available
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

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 Skin contact, Skin Absorption.

Acute Effects:

Eyes	Severe eye irritant.
Skin	Severe skin irritant. May cause sensitization by skin contact.
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 gastrointestinal irritation, nausea, vomiting and diarrhea.

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, Kidney, Liver, Skin, Eyes, Lungs.

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

Component Information

Acute Toxicity

Component	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Tetrachloroethylene 127-18-4	= 2629 mg/kg (Rat)	> 3228 mg/kg (Rabbit)	= 27.8 mg/L (Rat) 4 h	No data available	No data available
Methylene chloride 75-09-2	No data available	no data available	= 53 mg/L (Rat) 6 h	No data available	No data available

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Tetrachloroethylene 127-18-4	No data available	Skin sensitization	No data available	No data available	Skin; Central nervous system; Eyes; Respiratory

Methylene chloride 75-09-2	No data available	No data available	No data available	No data available	system; Liver; Kidney Skin; Central nervous system; Eyes
-------------------------------	-------------------	-------------------	-------------------	-------------------	--

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH	IARC	NTP	OSHA	Other
Tetrachloroethylene 127-18-4	A3	Group 2A	not applicable	X	not applicable
Methylene chloride 75-09-2	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	Crustacea	Partition coefficient
Tetrachloroethylene	EC50 > 500 mg/L Pseudokirchneriella subcapitata 96 h	LC50 12.4 - 14.4 mg/L Pimephales promelas 96 h LC50 8.6 - 13.5 mg/L Pimephales promelas 96 h LC50 11.0 - 15.0 mg/L Lepomis macrochirus 96 h LC50 4.73 - 5.27 mg/L Oncorhynchus mykiss 96 h	EC50 = 100 mg/L 24 h EC50 = 112 mg/L 24 h EC50 = 120.0 mg/L 30 min	6.1 - 9.0: 48 h Daphnia magna mg/L EC50 Static	2.88
Methylene chloride	EC50 > 500 mg/L Pseudokirchneriella subcapitata 96 h EC50 > 500 mg/L Pseudokirchneriella subcapitata 72 h	LC50 140.8 - 277.8 mg/L Pimephales promelas 96 h LC50 262 - 855 mg/L Pimephales promelas 96 h LC50 = 193 mg/L Lepomis macrochirus 96 h	EC50 = 1 mg/L 24 h EC50 = 2.88 mg/L 15 min	1532 - 1847: 48 h Daphnia magna mg/L EC50 Static 190: 48 h Daphnia magna mg/L EC50	1.25

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., (DICHLOROMETHANE, TETRACHLOROETHYLENE), MARINE POLLUTANT

TDG

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 TDG.
Description UN2810, TOXIC, LIQUID, ORGANIC, N.O.S., (DICHLOROMETHANE, TETRACHLOROETHYLENE), MARINE POLLUTANT

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., (DICHLOROMETHANE, 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., (DICHLOROMETHANE, 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
 Description UN2810, TOXIC, LIQUID, ORGANIC, N.O.S., (DICHLOROMETHANE, TETRACHLOROETHYLENE), 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

None

Component	Hazardous Substances RQs	CERCLA EHS RQs
Tetrachloroethylene	100 lb 1 lb	Not applicable
Methylene chloride	1000 lb 1 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
Methylene chloride	75-09-2	carcinogen
Propylene oxide	75-56-9	carcinogen
Methyl alcohol	67-56-1	developmental toxicity
Chloroform	67-66-3	carcinogen developmental toxicity
Methyl chloride	74-87-3	developmental toxicity male reproductive toxicity
Ethyl chloride	75-00-3	carcinogen
Vinyl chloride	75-01-4	carcinogen

16. OTHER INFORMATION

Prepared By Samantha Purvis
 Supersedes Date 11/13/2014
 Issuing Date 12/28/2016
 Reason for Revision No information available.
 Glossary No information available.
 List of References. No information available.

Partsmaster, Div of NCH Corp. assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage or disposal of the product. The information provided on this document is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

material or in any process, unless specified in the text.