

Revised Date 09/21/2005

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name MET-KOOL AEROSOL
Recommended Use Lubricant
Information on Manufacturer
ARCH DIV. OF NCH CORP.
52170
G, TX 75015

Product Code 5035
Chemical Nature Hydrocarbon mixture
Emergency Telephone Number
CHEMTREC® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

Danger

Extremely flammable
May be harmful if inhaled
May cause skin irritation
May cause eye irritation
Harmful or fatal if swallowed

Physical State Liquid

Odor Pleasant

Color Yellow - Amber
Potential Health Effects
Exposure Route of Exposure Inhalation, Skin contact, Eye contact.
Entry Routes of Entry Inhalation
Effects
Eyes May cause eye irritation
Skin May cause skin irritation
Inhalation May cause irritation of respiratory tract. Inhalation may cause central nervous system effects
Ingestion Ingestion may cause irritation to mucous membranes. Aspiration hazard if swallowed - can enter lungs and cause damage
Toxicity Prolonged skin contact may defat the skin and produce dermatitis, lung edema.
Organ Effects Central nervous system, Heart, Liver, Respiratory system.
Medical Conditions Neurological disorders, Skin disorders, Respiratory disorders.
Environmental Effects See Section 12 for additional Ecological information

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Butane	106-97-8
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	64742-52-5
Propane	74-98-6

4. FIRST AID MEASURES

First Aid Advice Avoid contact with skin, eyes, and clothing. Avoid breathing vapors, mist, or gas
Contact Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists
Contact Wash off with soap and plenty of water. Get medical attention if irritation develops and persists
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
First Aid to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flash Point >200°F / >93°C
Ignition Temperature No information available
Flammability Limits in Air % Mixture Upper 9.5 Lower 1.8
Extinguishing Media Seta closed cup
Extinguishing Media spray. Carbon dioxide (CO2). Foam. Dry chemical
Specific Hazards Arising from the Chemical
Vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Material can create slippery conditions. Flame extension: 24 inches / 61 cm and Burnback
Distance / 15 cm
Protective Equipment and Precautions for Firefighters
In any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Health	1	Flammability	4	Instability	0
Health	1	Flammability	4	Instability	0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions 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 disposal facility according to local / national regulations (see section 13)

Stabilizing Agent	Not applicable				
7. HANDLING AND STORAGE					
Handling Information	Avoid contact with skin, eyes, and clothing. Avoid breathing vapors, mist or gas Keep away from open flames, hot surfaces and sources of ignition				
Storage Temperature Conditions	Minimum	35°F/2°C		Maximum	120°F/49°C
	Indoor	X		Outdoor	Heated Refrigerated
8. EXPOSURE CONTROLS / PERSONAL PROTECTION					
Exposure Guidelines					
Component	ACGIH TLV		OSHA PEL		NIOSH
Butane	TWA: 1000 ppm		No data available		TWA: 1900 mg/m³ TWA: 800 ppm
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	TWA: 5 mg/m³; STEL: 10 mg/m³		TWA: 5 mg/m³		IDLH: 2,500 mg/m³; STEL 10 mg/m³; TWA: 5 mg/m³
Propane	TWA: 1000 ppm		TWA: 1000 ppm TWA: 1800 mg/m³		IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 ppm
Engineering Measures	Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas				
Personal Protective Equipment					
Eye/Face Protection	Safety glasses with side-shields				
Skin Protection	Neoprene gloves				
Respiratory Protection	In case of insufficient ventilation wear suitable respiratory equipment				
Personal 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	Slightly Viscous		
Color	Yellow - Amber	Odor	Pleasant		
Appearance	Transparent	pH	Not applicable		
Specific Gravity	0.835	Evaporation Rate	24.5 (Butyl acetate=1)		
Boiling Point (Volume)	No information available	VOC Content (%)	No information available		
Vapor Pressure	1731 mmHg @ 70 °F	Vapor Density	1.7 (Air = 1.0)		
Flammability	Negligible	Boiling Point/Range	465°F/241°C		
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				
Hazardous Decomposition Products	Carbon oxides, Aldehydes, Ketones.				
Stability of Hazardous Reactions	None under normal processing				
11. TOXICOLOGICAL INFORMATION					
Product Information	No information available				
Acute Toxicity					
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Butane	no data available	no data available	658 mg/L (Rat) 4 h	no data available	no data available
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	5000 mg/kg (Rat)	2000 mg/kg (Rabbit)	2.18 mg/L (Rat) 4 h	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
Chronic Toxicity					
Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Butane	no data available	no data available	no data available	no data available	CNS
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	no data available	no data available	no data available	no data available	respiratory system
Propane	no data available	no data available	no data available	no data available	CNS
Carcinogenicity					
Component	ACGIH	IARC	NTP	OSHA	Other
Butane	not applicable	not applicable	not applicable	not applicable	not applicable
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	not applicable	not applicable	not applicable	not applicable	not applicable
Propane	not applicable	not applicable	not applicable	not applicable	not applicable
12. ECOLOGICAL INFORMATION					

Product Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log P
Butane	no data available	no data available	no data available	no data available	2.8
um distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	no data available	96 Hr LC50 Pimephales promelas: >5000 mg/L	no data available	48 Hr EC50 Daphnia magna: >1000 mg/L	N/A
Propane	no data available	no data available	no data available	no data available	2.3

Biodegradability

No information available

Accumulation

No information available

Stability

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

Proper Shipping Name

DOT

Hazard Class

Consumer commodity

Description

ORM-D

Consumer commodity ,ORM-D,

Proper shipping name

Aerosols

Hazard Class

2.1

UN-No

UN1950

Description

AEROSOLS,2.1,UN1950 LTD QTY

UN-No

UN1950

Proper Shipping Name

Aerosols

Hazard Class

2.1

Shipping Description

UN1950, Aerosols, Flammable 2.1 LTD QTY

UN-No

UN1950

Proper Shipping Name

Aerosols, flammable

Hazard Class

2.1

ERG Code

10L

Shipping Description

UN1950,Aerosols, flammable,2.1 LTD QTY

DOT/IMO

Proper Shipping Name

Aerosols

Hazard Class

2.1

UN-No

UN1950

EmS No.

F-D, S-U

Shipping Description

UN1950, Aerosols,2.1 LTD QTY

15. REGULATORY INFORMATION

Regulatory Information

Complies

Complies

Federal Regulations

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 requirement of Section 313 and Title 40 of the Code of Federal Regulations, Part 372

Section 311/312 Hazardous Categorization

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

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Butane	Not applicable	Not applicable
petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	Not applicable	Not applicable
Propane	Not applicable	Not applicable

Additional Information

S Hazard Class

Compressed gases, B5 Flammable aerosol, D2B Toxic materials.



16. OTHER INFORMATION

Prepared By	Mike McDowell
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Revised Date	05/26/2009
Reason for Revision	No information available
Responsible Party	No information available
Other References	No information available

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