



1 PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: METAL CUTTING GAS (MCG)
APPLICATIONS: Industrial Cutting
CHEMICAL FAMILY: Alkanes
Company Information: Rakeeth Industrial gases co LLC
Al Sajaa Industrial Area,
Sharjah, UAE
Mob No. 0565264603
Tel No: 06526161

2.COMPOSTION INFORMATION ON INGREDIENTS

COMPONENTS CAS NO. PROPORTION
Hydrocarbons Mixture 68476-85-7 98-100%
Petroleum Distillate containing
additive
8008-20-6 0-1%

3. HAZARDOUS IDENTIFICATION

Appearance: Clear
Physical State: Flammable liquid & gas under pressure
Odour: Distinctive when stashed
Emergency Overview: Flammable liquid and gas under pressure.
Can form explosive mixtures with air. May cause frostbite. Can cause rapid suffocation. May cause dizziness and drowsiness. Self- contained breathing apparatus may be required by rescue workers.
Potential Health Effects:
Inhalation: Asphyxiant. Effects are due to lack of oxygen. Moderate concentrations may cause headaches, drowsiness, dizziness, vomiting and unconsciousness.
Skin contact: Slightly hazardous in case of skin contact
Eye contact: Liquid may cause frostbite
Ingestion: Not expected, this product is a gas

4.FIRST AID MEASURES

Inhalation: If inhaled, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists, give enough oxygen.

Eye Contact:

Check for and remove any contact lenses. In case of contact immediately flush eyes with plenty of water for at least 15 minutes. Get medical help.

Skin Contact:

In case of contact, immediately flush skin with plenty of water. Cover the irritant skin with an emollient. Remove contaminated clothing and shoes. Wash clothing & shoes before reuse. Seek medical help.
Ingestion: NA

5. FIRE FIGHTING MEASURES

Flash Point (°C): -107.7 °C

Flammability: Flammable

GENERAL HAZARD: Incomplete burning can produce carbon monoxide. Stay away from ends of storage tanks. Prevent runoff from fire control dilution from entering streams or drinking water supplies. Extremely flammable. Will vaporize violently if repressured.

FIRE FIGHTING INSTRUCTIONS: stop flow of gas. For fires involving flammable gases, the best procedure is to stop the flow of gas before attempting extinguishment of the fire. To extinguish the fire, while allowing continued flow of gas, is extremely dangerous;

an explosive cloud of gas/air mixture may be created that, if ignited, may cause far more damage than the original fire. Extinguishing the flame using carbon dioxide or dry chemical may be desirable to allow immediate access to valves to shut off the flow of gas, but this must be done carefully. In many cases, it will be preferable to allow continued burning, while protecting exposures with water spray, until the flow of gas can be stopped.
Extinguishing Media: Dry Chemical Powder, Alcohol Resistant Foam, Water Spray and Carbon Dioxide

6.ACCIDENTAL RELEASE MEASURES

Shut off ignition sources; no flames, smoking or flares in hazard area. Do not touch spilled material; stop leaks if you can do it without risk. Use water spray to reduce vapours; isolate area until gas has disappeared. Report spills to appropriate authorities. Dispose of in accordance with federal, state and local regulations

7.HANDLING AND STORAGE

HANDLING / STORAGE:

Must be handled and stored under pressure to maintain liquid form. Use non-sparking tools and equipment. Avoid ignition sources. Avoid contact with eyes, skin or clothing. Avoid breathing the vapor.

8.SPECIAL PROTECTION INFORMATION/CONTROL MEASURES EXPOSURE STANDARDS:

Ensure good ventilation. Avoid, as far as reasonably practicable, inhalation of vapor generated during use. The vapor is an asphyxiant at high concentrations.

If vapor is generated, its concentration in the work place air should be controlled too the lowest reasonably practical level.

ENGINEERING CONTROLS: Store containers in an upright position (even when empty);

Keep away from heat sources; do not drop; keep valve closed when not in use. Store away from oxidizing substances.

Cylinders must be secured in an upright position for transport.

RESPIRATORY PROTECTION: If operations are such that exposure to vapour, mist or fume may be anticipated, then suitable approved respiratory equipment should be worn.

The use of respiratory equipment must be strictly in accordance with the manufacturers' instructions and any statutory requirements governing its selection and use

PERSONAL PROTECTION:

PROTECTIVE CLOTHING: Full face shield and chemical goggles. Impervious gloves, boots, and whole-body protection.

9.PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state: Gas or liquid under pressure

Boiling Point: -42 o C

Specific gravity of liquid@37.7 o C@: 0.51-0.57

Vapor Density (air =1):1.6

Vapor Pressure: PSI@37.7 o C: 75-130

Colour: Colourless

Solubility in Water: Negligible

MATERIAL SAFETY DATA SHEET (MSDS)

Metal Cutting Gases (MCG)

10 - STABILITY AND REACTIVITY

GENERAL: This product is stable

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID: Strong oxidizers, alkalis, Nickel Carbonyl and Oxygen. Avoid heat sparks, flame, rapid depressurization, body contact.

HAZARDOUS DECOMPOSITION: Incomplete burning can produce carbon monoxide.

11. TOXICOLOGICAL INFORMATION

ACUTE AND CHRONIC HEALTH EFFECTS:

Inhalation: High concentrations may cause asphyxiation by displacement of oxygen.

Ingestion: NA

Eye: Contact with liquid may cause frostbite

Skin: Contact with liquid may cause frostbite

CHRONIC: No data available to indicate the product or its components present a chronic health hazard

12. SPILLS AND DISPOSAL

Spill may be detected by the smell of stanching agent (ethyl mercaptans). Evacuate area and extinguish or remove sources of ignition to a distance.

All BMCG containers should be returned to the supplier

Disposal: Dispose of in accordance with Federal, State, and Local regulations

13. ECOLOGICAL INFORMATION

MOBILITY:

Spillages are unlikely to penetrate the soil. The product is volatile / gaseous and will partition to the air phase.

PERSISTENCE/DEGRADABILITY:

Unlikely to cause long term adverse effects in the environment

BIOACUMULATIVE POTENTIAL:

This material is not expected to bioaccumulate.

14- TRANSPORT INFORMATIONS

DOT (Department of Transportation): May also be shipped as "Metal Cutting Gas"

PROPER SHIPPING NAME: Metal cutting Gas, Liquefied

HAZARD CLASS: 2.1

SECTION 15- REGULATORY INFORMATION

Not classified using the criteria in the Standard Uniform Scheduling of Drugs and

Poisons

16 – OTHER INFORMATION

HMIS: Health - 1, Flammability - 4, Reactivity – 0

(0 = insignificant, 1 = slight, 2 = moderate, 3 = high, 4 = extreme)

This product material safety data sheet provides health and safety information. The

product should be used in applications consistent with this product literature. For any

other uses, exposures should be evaluated so that appropriate handling practices and

training programs can be established to ensure safe work place operations. Further, the

information contained herein based on data available to us and is accurate and reliable to

the best of our knowledge and belief.



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