

SAFETY DATA SHEET

M30 Methylhydrogen



Data Prepared: June 17, 2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product form : Liquid
Product name : M30 Methylhydrogen
Use of the substance/mixture : Release agent

Manufacturer or supplier details

Company name of supplier : Clearco Products Co Inc.
Address : 15 York Rd.
Willow Grove, PA 19090 U.S.A.
Telephone : 215-639-2640
Emergency Telephone : CHEM TEL: 1-800-255-3924 (DOMESTIC)
+01-813-248-0585 (INTERNATIONAL)

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification (GHS-US)
Not classified

Label elements

GHS-US labeling
No labeling applicable

Other hazards

Other hazards not contributing to the classification : May be slightly irritating to eyes, respiratory system and skin. Repeated or prolonged skin contact may cause dermatitis and defatting.

Unknown acute toxicity (GHS US)

100 percent of the mixture consists of ingredient (s) of unknown acute toxicity (Oral)
100 percent of the mixture consists of ingredient (s) of unknown acute toxicity (Dermal)
100 percent of the mixture consists of ingredient (s) of unknown acute toxicity (Inhalation(Dust/Mist))

SECTION 3: Composition/information on ingredients

Substance

Not applicable

Mixture

Name	Product identifier	%	Classification (GHS-US)
Methyl Hydrogen siloxane homopolymer	(CAS No.) 63148-57-2	100	Not classified

Full text of H phrases: see section 16

SECTION 4: First aid measures

Description of first aid measures

First-aid measures after inhalation	: If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Wash skin with mild soap and water. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting unless directed to do so by medical personnel.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Prolonged or repeated contact may cause skin to become dry or cracked.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: No significant signs or symptoms indicative of any adverse health hazard are expected to occur as a result of ingestion.

Indication of any immediate medical attention and special treatment needed

All treatments should be based on observed signs and symptoms of distress in the patient.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media	: Carbon dioxide(CO ₂), powder, alcohol-resistant foam, water fog.
Unsuitable extinguishing media	: Do not use a heavy water stream.

Special hazards arising from the substance or mixture

Fire hazard	: Hydrogen may be formed by contact with acids, bases and moisture. Vapors may accumulate in a confined space and create a flammable atmosphere. Be aware of danger of explosion.
Explosion hazard	: Product is not explosive, but the hydrogen gas by product of the reaction with acids, bases and moisture is.
Reactivity	: Do not mix with strong alkalis such as sodium hydroxide or potassium hydroxide. This can cause generation of hydrogen gas. If heated to over 1200C it can break down to silicone cyclics that are flammable. At over 1500C it can produce formadehyde which is a potential carcinogen.

Advice for firefighters

Firefighting instructions	: Foam blankets may trap hydrogen gas with the possibility of sub surface explosions. Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear fire/flame resistant/retardant clothing. Use self-contained breathing apparatus.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment : butyl rubber gloves. Nitrile gloves.
Emergency procedures : Avoid all unnecessary exposure. Ventilate area. Stop leak, if possible without risk. Take up small spills with dry chemical absorbent.

For emergency responders

Protective equipment : Wear suitable gloves. Butyl rubber. Nitrile rubber.
Emergency procedures : Stop leak, if possible without risk. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Impound and recover large spill by mixing it with inert granular solids.

Environmental precautions

Do not discharge into drains or the environment.

Methods and material for containment and cleaning up

For containment : Do not allow minor leaks or spills to accumulate on walking surfaces. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Impound and recover large spill by mixing it with inert granular solids.

Reference to other sections

Reference to other sections (8,13).

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling : Do not get in eyes, on skin, or on clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Keep container tightly closed.
Incompatible materials : None known

Specific end use(s)

Silicone fluid

SECTION 8: Exposure controls/personal protection

Control parameters

Control parameters	

Exposure controls

Appropriate engineering controls : Avoid splashing. Avoid creating mist or spray. Either local exhaust or general room ventilation is usually required.

Hand protection : It is a good industrial hygiene practice to minimize skin contact. In case of repeated or prolonged contact wear waterproof gloves.

Eye protection	: Safety glasses. Use splash goggles when eye contact due to splashing is possible.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: May be irritating to the respiratory system. In case of inadequate ventilation wear respiratory protection. Organic vapor cartridge.

SECTION 9: Physical and chemical properties

Physical state	: Liquid
Appearance	: Clear, colorless liquid
Color	: Colorless
Odor	: No data available
Odor threshold	: No data available
pH	: Not applicable
Relative evaporation rate (butyl acetate=1)	: Not applicable
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: 392°F
Flash point	: 234°F
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid,gas)	: No data available
Vapor pressure	: Not applicable
Relative vapor density at 20 °C	: Not applicable
Relative density	: 0.97-0.99
Solubility	: Soluble in water
Log Pow	: No data available
Log Kow	: Not applicable
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 15-40cP
Explosion limits	: Not flammable
Explosive properties	: Product is not explosive, but breakdown vapors are explosive.
Oxidizing properties	: No oxidizing properties

Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity

Normally stable, but reacts with acids bases and some metals for form hydrogen gas.

Chemical stability

Stable under normal conditions

Possibility of hazardous reactions

May react with some metals bases and acids to form hydrogen gas.

Conditions to avoid

Contact with incompatible materials. This product can generate explosive hydrogen gas when exposed to alkalis and protic materials such as water and alcohol in combination with Noble metals such as platinum, palladium and rhodium.

Incompatible materials

Reacts Water, alcohols, acidic or basic materials and many metals to produce hydrogen gas.

Hazardous decomposition products

Thermal decomposition generates: silicone cyclics, formaldehyde and carbon oxides.

SECTION 11: Toxicological information**Information on toxicological effects**

Acute toxicity : Not classified. (Based on available data, the classification criteria are not met)

M30 Methylhydrogen	
Oral LD50	>30,000 mg/kg

Skin corrosion/irritation	: Not classified. (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	: Not classified. (Based on available data, the classification criteria are not met)
Respiratory or skin sensitization	: Not classified. (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified. (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified. (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified. (Based on available data, the classification criteria are not met)
Specific target organ toxicity (single exposure)	: Not classified. (Based on available data, the classification criteria are not met)
Specific target organ toxicity (repeated exposure)	: Not classified. (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified. (Based on available data, the classification criteria are not met)
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Prolonged or repeated contact may cause to become dry or cracked.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: Dermal; inhalation

SECTION 12: Ecological information**Toxicity**

Ecology-general : No ecotoxicological data about this product are known.

Persistence and degradability

Methylhydrogen	
Persistence and degradability	Not established

Bioaccumulative potential

Methylhydrogen	
Log Kow	Not applicable
Bioaccumulative potential	Not established

Mobility in soil

No additional information available

Other adverse effects

Effect on ozone layer : None known

Effect on the global warming : None known

SECTION 13: Disposal considerations

Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.
Sewage disposal recommendations : Do not dispose of waste into sewer.
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT
Not considered a dangerous good for transport regulations

Additional information

Other information : No supplementary information available.

ADR

No additional information available.

Transport by sea

No additional information available.

Air Transport

No additional information available.

SECTION 15: Regulatory information

US Federal regulations

Listed on the United States TSCA (Toxic Substances Control Act) inventory

International regulations

CANADA

Methylhydrogen	
WHMIS Classification	This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR Uncontrolled product according to WHMIS classification criteria.

EU-Regulations

Methylhydrogen
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Not classified

Classification according to Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

Not classified

US State regulations

Not included in State Right to Know lists

SECTION 16: Other information

Indication of changes : Original document.
Data sources : ACGIH (American Conference of Government Industrial Hygienists).

Chemical Inspection & Regulation Service; accessed at:
http://www.cirsreach.com/Inventory/Global_Chemical_Inventories.html.

European Chemicals Agency (ECHA) Registered Substances list.
Accessed at <http://echa.europa.eu/>.

European Standards: Personal Protective Equipment; accessed at
:http://ec.europa.eu/enterprise/policies/european-standards/harmonised-standards/personalprotective-equipment/index_en.htm.

Internal Company test data.

Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.

National Fire Protection Association; Fire Protection Guide to Hazardous Materials; 10th edition.

TSCA Chemical Substance Inventory. Accessed at
<http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html>.

Abbreviations and acronyms

CAS: (Chemical Abstracts Service) number.

GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).

OSHA: Occupational Safety & Health Administration.

TSCA: Toxic Substances Control Act.

Full text of H-phrases:

NFPA health hazard

: 0- Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard

: 1- Must be preheated before ignition can occur.

NFPA reactivity

: 0-Normally stable, even under fire exposure conditions, and are not reactive with water.



The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.