

VALCO CINCINNATI CONSUMER PRODUCTS INC.

ADDRESS: 411 CIRCLE FREEWAY DRIVE, CINCINNATI, OHIO 45246

MATERIAL SAFETY DATA SHEET

MATERIAL NAME: VALCO HYLOMAR AERO GRADE (PL32) 710XX291 (LIGHT), 710XX292 (MEDIUM)

EMERGENCY TELEPHONE NO.: CALL INFOTRAC AT 1-800-535-5053

PRODUCT INFORMATION NO.:(513) 874-6550

DATE ISSUED: MAY 2015

SECTION I – GENERAL INFORMATION

MANUFACTURER'S NAME: HYLOMAR LTD, CALE LANE, WIGAN ENGLAND

TRADE NAME & SYNONYMS: HYLOMAR AERO GRADE

IDENTIFIED USES: Non-Setting and Non-Hardening Gasketing Compound

SHELF LIFE: Two Years

SECTION II – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Physical state	Liquid.
Appearance	Blue thixotropic gel.
Emergency overview	WARNING Possible cancer hazard - may cause cancer based on animal data. Causes skin and eye irritation. May be harmful if swallowed. Prolonged or repeated exposure may cause liver, kidney and central nervous system damage. Vapors may cause drowsiness and dizziness.
OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Routes of exposure	Inhalation. Eye contact. Skin contact. Ingestion.
Eyes	Causes eye irritation.
Skin	Causes skin irritation.
Inhalation	Vapors may cause drowsiness and dizziness. Prolonged inhalation may be harmful.
Ingestion	May be harmful if swallowed. Ingestion may cause irritation and malaise.
Target organs	Eyes. Skin. Central nervous system. Liver. Kidney.
Chronic effects	Repeated or prolonged exposure may cause kidney and liver damage. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Signs and symptoms	Symptoms include itching, burning, redness, and tearing of eyes. Itching, redness, burning of skin. Vapors may cause drowsiness and dizziness.
Potential environmental effects	Not expected to be harmful to aquatic organisms.

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent
Dichloromethane	75-09-2	25-65
Composition comments	All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.	

SECTION IV – FIRST AID

First aid procedures	
Eye contact	Immediately rinse eyes with water. Remove any contact lenses, and continue flushing eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get immediate medical attention.
Skin contact	Take off immediately all contaminated clothing. Wash skin thoroughly with soap and water. If irritation develops and persists, get medical attention.
Inhalation	Move into fresh air and keep at rest. If not breathing, give artificial respiration or give oxygen by trained personnel. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Drink a few glasses of water or milk. Get medical attention immediately.
Notes to physician	Provide general supportive measures and treat symptomatically.
General advice	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

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SECTION V – FIREFIGHTING MEASURES

Flammable properties	The product is not flammable.
Extinguishing media	
Suitable extinguishing media	Water spray, foam, dry powder or carbon dioxide.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Protection of firefighters	
Specific hazards arising from the chemical	By heating and fire, toxic vapors/gases may be formed. Solvent vapors may form explosive mixtures with air.
Protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.
Fire fighting equipment/instructions	Cool containers exposed to heat with water spray and remove container, if no risk is involved. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.
Hazardous combustion products	Phosgene. Hydrogen chloride. Carbon monoxide and carbon dioxide.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal precautions	Keep upwind. Ventilate closed spaces before entering them. Avoid inhalation of vapors/spray and contact with skin and eyes. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear protective clothing as described in Section 8 of this MSDS. Keep unnecessary personnel away.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not discharge into drains, water courses or onto the ground.
Methods for cleaning up	Eliminate all ignition sources. Ventilate the area. Wipe up with absorbent material (e.g. cloth, fleece). Transfer to a container for disposal. Following product recovery, flush area with water. For waste disposal, see Section 13 of the MSDS.
Other information	Clean up in accordance with all applicable regulations.

SECTION VII – HANDLING AND STORAGE

Handling	Keep away from sources of ignition - No smoking. Use only outdoors or in a well-ventilated area. Avoid inhalation of vapors/spray and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid prolonged exposure. Wash thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices. Avoid release to the environment.
Storage	Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, spark, open flames and other sources of ignition. Store away from incompatible materials. Store in closed original container at temperatures between 5°C and 25°C.

SECTION VIII – CONTROL MEASURES

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
Dichlormethane (CAS 75-09-2)	TWA	50 ppm

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Type	Value
Dichlormethane (CAS 75-09-2)	STEL	125 ppm
	TWA	25 ppm

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SECTION VIII – CONTROL MEASURES (CON'T)

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value
Dichlormethane (CAS 75-09-2)	TWA	174 mg/m3
		50 ppm

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value
Dichlormethane (CAS 75-09-2)	TWA	25 ppm

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value
Dichlormethane (CAS 75-09-2)	TWA	50 ppm

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value
Dichlormethane (CAS 75-09-2)	TWA	174 mg/m3
		50 ppm

Mexico. Occupational Exposure Limit Values

Components	Type	Value
Dichlormethane (CAS 75-09-2)	STEL	1740 mg/m3
		500 ppm
	TWA	330 mg/m3
		100 ppm

- Engineering controls** Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors.
- Personal protective equipment**
- Eye / face protection** If eye contact is likely, safety glasses with side shields or chemical type goggles should be worn.
 - Skin protection** Wear protective gloves. Polyvinyl alcohol gloves are recommended. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier. Normal work clothing (long sleeved shirts and long pants) is recommended.
 - Respiratory protection** In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.
 - General hygiene considerations** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

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SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Blue thixotropic gel.
Physical state	Liquid.
Form	Thixotropic gel.
Color	Blue.
Odor	Sweet.
Odor threshold	Not available.
pH	Not applicable.
Vapor pressure	47 kPa (20 °C)
Vapor density	2.93 (Air = 1) (20 °C)
Boiling point	Not applicable.
Melting point/Freezing point	Not available.
Solubility (water)	Slightly miscible.
Specific gravity	1.32 (20 °C)
Flash point	Not applicable.
Flammability limits in air, upper, % by volume	Not applicable.
Flammability limits in air, lower, % by volume	Not applicable.
Auto-ignition temperature	1112 °F (600 °C)
VOC	25 - 65 % (Hylomar Test Method 1.1A Determination of Volatile Matter)
Evaporation rate	Not applicable.
Viscosity	Not applicable.
Other data	
Explosive limit	Not available.
Explosive properties	Not available.
Flammability (solid, gas)	Not applicable.
Oxidizing properties	Not available.

SECTION X – STABILITY AND REACTIVITY

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Heat, sparks, flames, elevated temperatures.
Incompatible materials	Strong oxidizing agents. Alkali metals.
Hazardous decomposition products	Phosgene. Hydrogen chloride. Carbon monoxide. Carbon dioxide.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.

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Toxicological data		
Product	Species	Test Results
Aerograde PL32 - Light, Medium & Heavy Grades (CAS Mixture)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg
Inhalation		
LC50	Rat	15000 ppm
Oral		
LD50	Rat	1410 - 2524 mg/kg
Components	Species	Test Results
Dichlormethane (CAS 75-09-2)		
Acute		
Inhalation		
LC50	Guinea pig	40.2 mg/l, 6 Hours
		56.23 mg/l, 7 Hours
		51.5 mg/l, 2 Hours
		49.1 mg/l, 6 Hours
	Rat	2000 mg/l, 15 Minutes
		88 mg/l, 900 Days
		79 mg/l, 2 Hours
	Mouse	52 mg/l, 6 Hours
		16000 mg/l, 7 Hours
	LD50	Mouse
437 mg/kg		
Oral	Rat	1600 mg/kg
LD50		437 mg/kg
Other	Mouse	437 mg/kg
LD50		437 mg/kg
Sensitization	Not classified.	
Acute effects	May be harmful if swallowed. Vapors may cause drowsiness and dizziness.	
Local effects	Causes skin and eye irritation.	
Chronic effects	Prolonged or repeated exposure may cause liver, kidney, and central nervous system damage. Prolonged exposure may cause chronic effects. Severe overexposure may cause cardiac sensitization and result in irregular rhythm.	
Carcinogenicity	Possible cancer hazard - may cause cancer based on animal data.	
ACGIH Carcinogens		
Dichlormethane (CAS 75-09-2)	A3 Confirmed animal carcinogen with unknown relevance to humans.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
Dichlormethane (CAS 75-09-2)	2B Possibly carcinogenic to humans.	
US NTP Report on Carcinogens: Anticipated carcinogen		
Dichlormethane (CAS 75-09-2)	Reasonably Anticipated to be a Human Carcinogen.	
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		
Dichlormethane (CAS 75-09-2)	Potential cancer hazard.	
Epidemiology	No epidemiological data is available for this product.	
Mutagenicity	Positive in vitro, but negative in vivo assays.	
Neurological effects	Vapors may cause drowsiness and dizziness.	
Reproductive effects	Not classified.	
Symptoms and target organs	Symptoms include itching, burning, redness, and tearing of eyes. Itching, redness, burning of skin. Vapors may cause drowsiness and dizziness. Target organs: Central nervous system. Liver. Kidney.	
Further information	Symptoms may be delayed.	

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Ecotoxicological data			
Product		Species	Test Results
Aerograde PL32 - Light, Medium & Heavy Grades (CAS Mixture)	LC50	Salmo garidneri	5.5 mg/l, 96 hours
Aquatic			
Algae	EC50	Algae	> 662 mg/l, 48 hours
Crustacea	EC50	Daphnia magna	135 - 2270 mg/l, 48 hours
Product		Species	Test Results
Fish	LC50	Guppy (Poecilia reticulata)	295 mg/l, 14 days
	NOEC	Pimephales promelas	357 mg/l, 8 days
Components		Species	Test Results
Dichlormethane (CAS 75-09-2)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1250 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	140.8 - 277.8 mg/l, 96 hours
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.		
Persistence and degradability	The product is not readily biodegradable. BOD: 5 - 25% / 28 days. The product is intrinsically biodegradable. Degradation = 100% / 28 days.		
Bioaccumulation / Accumulation	Potential to bioaccumulate is low. BCF (Cyprinus carpio): 6.4 - 40, 42 days at 0.025 ppm. Log Pow: 1.25 - 1.30 (measured).		
Partition coefficient	Log Pow: 1.25 - 1.30 (measured)		
Dichlormethane (CAS 75-09-2)			1.25
Mobility in environmental media	The product is slightly soluble in water.		

SECTION XIII - DISPOSAL**13. Disposal Considerations**

Waste codes	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
US RCRA Hazardous Waste U List: Reference	
Dichlormethane (CAS 75-09-2)	U080
Disposal instructions	Do not discharge into drains, water courses or onto the ground. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Waste from residues / unused products	Do not discharge into rivers, lakes, mountains, etc. because the product may affect the environment.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION XIV - TRANSPORT**DOT****Basic shipping requirements:**

UN number	UN2810
Proper shipping name	Toxic liquid, organic, n.o.s. (Dichlormethane)
Hazard class	6.1
Packing group	III
Environmental hazards	
Marine pollutant	No
Additional information:	
Special provisions	IB3, T7, TP1, TP28
Packaging exceptions	153
Packaging non bulk	203
Packaging bulk	241

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UN number	UN2810
UN proper shipping name	Toxic liquid, organic, n.o.s. (Dichlormethane)
Transport hazard class(es)	6.1
Packing group	III
Environmental hazards	No
Labels required	6.1
ERG code	6L
Special precautions for user	Read safety instructions, MSDS and emergency procedures before handling.

IMDG

UN number	UN2810
UN proper shipping name	Toxic liquid, organic, n.o.s. (Dichlormethane)
Transport hazard class(es)	6.1
Packing group	III
Environmental hazards	
Marine pollutant	No
Labels required	6.1
EmS	F-A, S-A
Special precautions for user	Read safety instructions, MSDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

TDG

UN number	UN2810
Proper shipping name	Toxic liquid, organic, n.o.s. (Dichlormethane)
Hazard class	6.1
Packing group	III
Marine pollutant	No
Special provisions	16
Labels required	6.1

SECTION XV – REGULATORY INFORMATION

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Dichlormethane (CAS 75-09-2)

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Dichlormethane (CAS 75-09-2) 0.1 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Dichlormethane (CAS 75-09-2) Listed.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

Dichlormethane: 1000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes
	Delayed Hazard - Yes
	Fire Hazard - No
	Pressure Hazard - No
	Reactivity Hazard - No

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Section 302 extremely hazardous substance (40 CFR 355, Appendix A)	No
SARA 311/312 Hazardous chemical	No
Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)	Not controlled
Canadian regulations	This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.
WHMIS status	Controlled
WHMIS classification	D1B - Immediate/Serious-TOXIC D2A - Other Toxic Effects-VERY TOXIC D2B - Other Toxic Effects-TOXIC

WHMIS labeling**Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

State regulations WARNING: This product contains a chemical known to the State of California to cause cancer.**US - California Hazardous Substances (Director's): Listed substance**

Dichlormethane (CAS 75-09-2) Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Dichlormethane (CAS 75-09-2) Listed.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Dichlormethane (CAS 75-09-2) Listed: April 1, 1988 Carcinogenic.

US - New Jersey RTK - Substances: Listed substance

Dichlormethane (CAS 75-09-2) Listed.

US - Pennsylvania RTK - Hazardous Substances: Special hazard

Dichlormethane (CAS 75-09-2) Special hazard.

US. Massachusetts RTK - Substance List

Dichlormethane (CAS 75-09-2) Listed.

US. New Jersey Worker and Community Right-to-Know Act

Dichlormethane (CAS 75-09-2) 500 lbs

US. Pennsylvania RTK - Hazardous Substances

Dichlormethane (CAS 75-09-2) Listed.

Mexico regulations This safety data sheet was prepared in accordance with the Official Mexican Standard (NOM-018-STPS-2000).

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SECTION XVI – OTHER INFORMATION

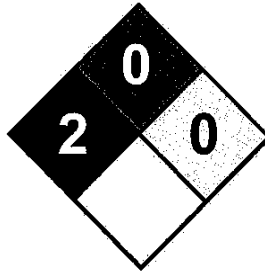
Recommended use

Non-Setting and Non-Hardening Gasketing Compound.

HMIS® ratings

Health: 2*
Flammability: 0
Physical hazard: 0

NFPA Ratings



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