ADDRESS: 411 CIRCLE FREEWAY DRIVE, CINCINNATI, OHIO 45246

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: FEBRUARY 1, 2018** 

## **SECTION 1 – 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 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Physical hazards Not classified.

Health hazards Category 4 Acute toxicity, oral

> Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2

> Carcinogenicity Category 2

Specific target organ toxicity, repeated

Category 2 (Central nervous system) exposure

**OSHA** defined hazards

Not classified.

Label elements



Signal word

Danger

**Hazard statement** 

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. May cause damage to organs (Central nervous system) through prolonged or repeated

exposure.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Do not breathe mist or vapor. Wear protective gloves/eye protection/face

protection. Wash thoroughly after handling.

If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with Response

plenty of water. If skin irritation occurs: Get medical advice/attention. 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. Take off contaminated clothing and

wash before reuse.

Storage

Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

## **SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

#### Mixtures

Chemical name		CAS number	%
Dichlormethane		75-09-2	25-65
Composition comments	All concentrations are in percent by vipercent by volume.	veight unless ingredient is a gas. Gas	concentrations are in

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#### **SECTION 4 - FIRST AID**

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.

Take off immediately all contaminated clothing. Wash skin thoroughly with soap and water. If Skin contact

irritation develops and persists, get medical attention.

Eve 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.

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.

Most important

symptoms/effects, acute and delayed

Symptoms include itching, burning, redness, and tearing of eyes. Itching, redness, burning of skin.

Vapors may cause drowsiness and dizziness.

Indication of immediate

medical attention and special treatment needed

General information

Provide general supportive measures and treat symptomatically.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

#### **SECTION 5 - FIREFIGHTING MEASURES**

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.

Specific hazards arising from

the chemical

By heating and fire, toxic vapors/gases may be formed. Solvent vapors may form explosive

mixtures with air.

Special 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

Fire fighting

equipment/instructions General fire hazards

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.

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up

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 SDS.

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 SDS.

**Environmental precautions** 

Prevent further leakage or spillage if safe to do so. Do not discharge into drains, water courses or onto the ground.

## **SECTION 7 - HANDLING AND STORAGE**

Keep away from sources of ignition - No smoking. Use only outdoors or in a well-ventilated area. Precautions for safe handling

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.

Conditions for safe storage, including any incompatibilities 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 locked up.

Store in closed original container at temperatures between 5°C and 25°C.

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## **SECTION 8 - CONTROL MEASURES**

#### Occupational exposure limits

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

Components	Туре	Value	
Dichlormethane (CAS 75-09-2)	STEL	125 ppm	
	TWA	25 ppm	
US. ACGIH Threshold Limit	Values		
Components	Туре	Value	
Dichlormethane (CAS	TWA	50 ppm	

75-09-2) Biological limit values

#### **ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Dichlormethane (CAS	0.3 mg/l	Dichlorometha	Urine	*
75-09-2)	_	ne		

<sup>\* -</sup> For sampling details, please see the source document.

Exposure guidelines

Follow standard monitoring procedures.

Appropriate engineering

Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of

Individual protection measures, such as 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.

Other

Thermal hazards

Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory protection

Hand 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. Not applicable.

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.

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance Blue thixotropic gel.

Physical state

Liquid.

Form

Thixotropic gel.

Color

Blue.

Odor Odor threshold Sweet.

pН

Not available. Not applicable.

Melting point/freezing point

Not available.

Initial boiling point and boiling

Not applicable.

range

Flash point

Not applicable.

**Evaporation rate** Flammability (solid, gas) Not applicable. Not applicable.

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#### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES (CONT)

#### Upper/lower flammability or explosive limits

Flammability limit - lower

Not applicable.

Flammability limit - upper

Not applicable.

(%)

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure 47 kPa (20 °C) 2.93 (Air = 1) (20 °C)

Vapor density Relative density

1.32 (20 °C)

Solubility(ies)

Solubility (water)

Slightly miscible.

Partition coefficient

Log Pow: 1.25 - 1.30 (measured)

(n-octanol/water)

**Auto-Ignition temperature** 

1112 °F (600 °C)

Decomposition temperature Viscosity

Not available. Not applicable.

Other information

**Explosive limit Explosive properties**  Not available. Not available

**Oxidizing properties** VOC (Weight %)

Not available. 25 - 65 % (Hylomar Test Method 1.1A Determination of Volatile Matter)

#### **SECTION 10 - STABILITY AND REACTIVITY**

Reactivity The product is stable and non reactive under normal conditions of storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Incompatible materials Heat, sparks, flames, elevated temperatures.

Hazardous decomposition

Strong oxidizing agents. Alkali metals

products

Phosgene. Hydrogen chloride. Carbon monoxide. Carbon dioxide.

## **SECTION 11 – TOXICOLOGICAL INFORMATION**

## information on likely routes of exposure

Inhalation

Vapors may cause drowsiness and dizziness.

Skin contact

Causes skin irritation. May be absorbed through the skin.

Eye contact Ingestion

Causes serious eye irritation. Harmful if swallowed. Ingestion may cause irritation and malaise.

Symptoms related to the

Symptoms include itching, burning, redness, and tearing of eyes. Itching, redness, burning of

physical, chemical and

skin. Vapors may cause drowsiness and dizziness.

toxicological characteristics

Information on toxicological effects Acute toxicity

Harmful if swallowed.

Product

Species

Aerograde PL32 - Light, Medium & Heavy Grades (CAS Mixture)

Rat

Rat

Acute

Dermal LD50

> 2000 mg/kg

**Test Results** 

Inhalation LC50

15000 ppm

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# SECTION 11 - TOXICOLOGICAL INFORMATION (CONT)

Product	Species	Test Results	
Oral			
LD50	Rat	1410 - 2524 mg/kg	
Components	Species	Test Results	
Dichlormethane (CAS 75-09-2)			
Acute			
Inhalation			
LC50	Rat	79 mg/l, 2 Hours	
Oral			
LD50	Rat	1600 mg/kg	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory or skin sensitization	n		
Respiratory sensitization	Not classified.		
Skin sensitization	Not classified.		
Germ cell mutagenicity	Positive in vitro, but negative	in vivo assays.	
Carcinogenicity	Suspected of causing cancer.	•	
IARC Monographs. Overall	Evaluation of Carcinogenicity		
Dichlormethane (CAS 75-09-2) NTP Report on Carcinogens		2B Possibly carcinogenic to humans.	
Dichlormethane (CAS 75-09-2) OSHA Specifically Regulated Substances (29 CFR 1910.		Reasonably Anticipated to be a Human Carcinogen. 1001-1050)	
Dichlormethane (CAS 75	i-09-2)	Cancer	
Reproductive toxicity	Not classified.		
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	May cause damage to the following organs through prolonged or repeated exposure: Central nervous system. Liver. Kidneys.		
Aspiration hazard	Not classified.		

## **SECTION 12 – ECOLOGICAL INFORMATION**

Chronic effects

**Further Information** 

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.			
Product		Species	Test Results	
Aerograde PL32 - Light, Me	dium & Heavy (	Grades		
	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	
Fish	LC50	Guppy (Poecilia reticulata)	295 mg/l, 14 days	
	NOEC	Pimephales promelas	357 mg/l, 8 days	
Persistence and degradability	ty The product is not readily biodegradable. BOD: 5 - 25% / 28 days. The product is intrinsically biodegradable. Degradation = 100% / 28 days.			
Bioaccumulative potential	Potential to bioaccumulate is low. BCF (Cyprinus carpio): 6.4 - 40, 42 days at 0.025 ppm. Log Pow: 1.25 - 1.30 (measured).			

Symptoms may be delayed. Severe overexposure may cause cardiac sensitization and result in

Prolonged exposure may cause chronic effects.

irregular rhythm.

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#### SECTION 12 - ECOLOGICAL INFORMATION (CONT)

Partition coefficient n-octanol / water (log Kow)

Dichlormethane (CAS 75-09-2)

Mobility in soil Not available.

Mobility in general The product is slightly soluble in water.

Other adverse effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

1.25

#### **SECTION 13 - DISPOSAL**

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 Disposal instructions

with local/regional/national/international regulations.

Local disposal regulations Dispose of in accordance with local regulations.

Hazardous waste code The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused Do not discharge into rivers, lakes, mountains, etc. because the product may affect the products

environment.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### **SECTION 14 - TRANSPORTATION**

DOT

**UN** number UN2810

UN proper shipping name Toxic liquid, organic, n.o.s. (Dichlormethane)

Transport hazard class(es)

Class 6.1 Subsidiary risk Label(s) 6.1 Packing group Ш Environmental hazards

Marine pollutant Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions IB3, T7, TP1, TP28

Nο

Packaging exceptions 153 Packaging non bulk 203 241 Packaging bulk

IATA

**UN number** UN2810

Toxic liquid, organic, n.o.s. (Dichlormethane) UN proper shipping name

Transport hazard class(es)

Class 6.1 Subsidiary risk Label(s) 6.1 Packing group 111 Environmental hazards No **ERG Code** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Toxic liquid, organic, n.o.s. (Dichlormethane)

IMDG

UN number UN2810

UN proper shipping name

Transport hazard class(es) 6.1 Class Subsidiary risk

Label(s) 6.1 Packing group Ш **Environmental hazards** 

Marine pollutant No F-A, S-A

Special precautions for user Read safety instructions, SDS and emergency procedures before handling

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

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## **SECTION 15 - 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.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Dichlormethane (CAS 75-09-2)

Central nervous system

Liver Skin irritation Eye irritation

CERCLA Hazardous Substance List (40 CFR 302.4)

Dichlormethane (CAS 75-09-2)

LISTED

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

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Chemical name % by wt. **CAS** number Dichlormethane 25-65

Other federal regulations

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

Dichlormethane (CAS 75-09-2)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

WARNING: This product contains a chemical known to the State of California to cause cancer.

US. Massachusetts RTK - Substance List

Dichlormethane (CAS 75-09-2)

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

Dichlormethane (CAS 75-09-2)

US. Pennsylvania Worker and Community Right-to-Know Law

Dichlormethane (CAS 75-09-2)

US. Rhode Island RTK

Dichlormethane (CAS 75-09-2)

US. California Proposition 65

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

Dichlormethane (CAS 75-09-2)

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## **SECTION 15 - REGULATORY INFORMATION (CONT)**

lı	ternational Inventories		
	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
	Country(s) or region	Inventory name	On inventory (yes/no)*
	Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
	United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
		omplies with the inventory requirements administered by the governing country e components of the product are not listed or exempt from listing on the invento	

## **SECTION 16 – OTHER INFORMATION**

# 16. Other information, including date of preparation or last revision

Issue date 15-January-2015

Revision date

Version #

**Further information** 

HMIS® is a registered trade and service mark of the NPCA. HMIS® ratings Health: 2\*

Flammability: 0 Physical hazard: 0

NFPA ratings

#### List of abbreviations

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