# HYLOMAR\*

# SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

**HYLO®CLEAN** 

of the mixture

Registration number

Synonyms None.
SDS number 46

Issue date 16-October-2014

Version number 02

Revision date 18-April-2018
Supersedes date 16-October-2014

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified usesSolvent cleaner.Uses advised againstAll other uses.1.3. Details of the supplier of the safety data sheet

Manufacturer: Hylomar Ltd.

Address: Hylo House, Cale Lane, New Springs,

Wigan, Greater Manchester,

UK, WN2 1JT

Telephone number: +44(0)1942 617000

E-mail address: info@hylomar.co.uk

Contact person: Technical Department

1.4. Emergency telephone +1-760-476-3961 (US)

number

Access code: 333544

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

# Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

Aerosols Category 1 H222 - Extremely flammable

aerosol.

H229 - Pressurized container: May

burst if heated.

**Health hazards** 

Serious eye damage/eye irritation Category 2 H319 - Causes serious eye

irritation.

Specific target organ toxicity - single Category 3 narcotic effects H336 - May cause drowsiness or

exposure

dizziness.

Will be easily ignited by heat, spark or flames. Extremely flammable aerosol. Causes eye irritation. Prolonged or repeated contact may dry skin and cause irritation. Vapours may cause

drowsiness and dizziness.

2.2. Label elements

**Hazard summary** 

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Acetone

**Hazard pictograms** 



Signal word Danger

**Hazard statements** 

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Extremely flammable aerosol. H222 Pressurized container: May burst if heated. H229

H319 Causes serious eye irritation. May cause drowsiness or dizziness. H336

## **Precautionary statements**

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P210

Do not spray on an open flame or other ignition source. P211

Do not pierce or burn, even after use. P251 Avoid breathing mist/vapours/spray. P261

Use only outdoors or in a well-ventilated area. P271

Keep out of reach of children. P102

Response Not applicable.

Storage

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F. P410 + P412

**Disposal** 

Dispose of contents/container in accordance with local/regional/national/international regulations. P501

EUH066 - Repeated exposure may cause skin dryness or cracking. Supplemental label information

2.3. Other hazards This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### **General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Acetone	60 - 100	67-64-1 200-662-2	01-2119471330-49-xxxx	606-001-00-8	#
Classification:	Flam. Liq. 2;H225, Ey	e Irrit. 2;H319, STOT	SE 3;H336		
Petroleum gases, liquefic	ed; petroleum 30 - 60	68476-85-7 270-704-2	-	649-202-00-6	
Classification:	Flam. Gas 1;H220, Pr	ress. Gas;H280			K,S,U

#### List of abbreviations and symbols that may be used above

#: This substance has workplace exposure limit(s).

Note K: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w 1,3-butadiene (Einecs No 203-450-8). If the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P210-P403 should apply. This note applies only to certain complex oil-derived substances in Part 3 of Annex VI to Regulation (EC) No 1272/2008.

Note S: This substance may not require a label according to Article 17 (see section 1.3 of Annex I) (Table 3.1). This substance may not require a label according to Article 23 of Directive 67/548/EEC (see section 8 of Annex VI to that Directive) (Table 3.2). Note U (Table 3.1): When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

**Composition comments** 

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in

percent by volume. The full text for all H-statements is displayed in section 16.

#### **SECTION 4: First aid measures**

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

protect themselves.

4.1. Description of first aid measures

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 persists get medical attention.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove any contact lenses. Eye contact

Get medical attention if any discomfort continues.

Not likely, due to the form of the product. However: Rinse mouth thoroughly. Drink a few glasses of Ingestion

water or milk. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and

delayed

Symptoms may include redness, oedema, drying, defatting and cracking of the skin. Irritation of eyes and mucous membranes. Symptoms of overexposure may be headache, dizziness,

tiredness, nausea and vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen.

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## **SECTION 5: Firefighting measures**

General fire hazards

The product is extremely flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures. Vapours are heavier than air and may travel along the ground to some distant source of ignition and flash back. Containers may explode when heated.

5.1. 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.

5.2. Special hazards arising from the substance or mixture By heating and fire, harmful vapours/gases may be formed.

5.3. Advice for firefighters

Special protective equipment 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.

Special fire fighting procedures

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**

#### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them. Avoid inhalation of vapours/spray and contact with skin and eyes. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

For emergency responders

Keep unnecessary personnel away. Wear protective clothing as described in Section 8 of this

safety data sheet.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Eliminate all ignition sources. Stop leak if you can do so without risk. 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. Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

6.4. Reference to other

sections

Not available.

## **SECTION 7: Handling and storage**

7.1. Precautions for safe handling

Do not use in areas without adequate ventilation. Avoid inhalation of vapours and spray mist and contact with skin and eyes. Avoid prolonged exposure. Keep away from sources of ignition - No smoking. The product is extremely flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material Wash thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices. Wear protective clothing as described in Section 8 of this safety data sheet.

7.2. Conditions for safe storage, including any incompatibilities

Follow rules for flammable liquids. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Keep away from food, drink and animal feeding stuffs. Keep in an area equipped with sprinklers. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from incompatible material. Store in closed original container at temperatures between 0°C and 40°C.

7.3. Specific end use(s) Solvent cleaner.

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

#### Occupational exposure limits

#### **UK. EH40 Workplace Exposure Limits (WELs)**

Components	Туре	Value	
Acetone (CAS 67-64-1)	STEL	3620 mg/m3	
		1500 ppm	
	TWA	1210 mg/m3	
		500 ppm	
Petroleum gases, liquefied; petroleum gas (CAS 68476-85-7)	STEL	2180 mg/m3	

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UK. EH40 Workplace Exposu Components	•	.s) Type	Value		
	-	TWA	1250 ppm 1750 mg/m3 1000 ppm		
EU. Indicative Exposure Lim Components		ectives 91/322/EEC, 2 Type	000/39/EC, 2006/15/EC, 2009/ Value	161/EU	
Acetone (CAS 67-64-1)	-	TWA	1210 mg/m3 500 ppm		
iological limit values ecommended monitoring rocedures	· ·	xposure limits noted fo d monitoring procedure	r the ingredient(s).		
erived no effect levels (DNELs)					
<b>General Population</b>					
Components		Value	Assessment factor	Notes	
Acetone (CAS 67-64-1)					
Long-term, Systemic, Deri Long-term, Systemic, Inha Long-term, Systemic, Oral	alation	62 mg/kg bw/day 200 mg/m3 62 mg/kg bw/day	20 5 2		
Workers Components		Value	Assessment factor	Notes	
Acetone (CAS 67-64-1)		Value	According to the factor	110100	
Long-term, Systemic, Dermal Long-term, Systemic, Inhalation Short-term, Local, Inhalation		186 mg/kg bw/day 1210 mg/m3 2420 mg/m3			
redicted no effect concentration	ns (PNECs)				
Components		Value	Assessment factor	Notes	
Acetone (CAS 67-64-1)					
Freshwater		10.6 mg/l	50		
Marine water Sediment (freshwater) Sediment (marine water)		1.06 mg/l 30.4 mg/kg 3.04 mg/kg	500		
Soil STP		29.5 mg/kg 100 mg/l	10		
2. Exposure controls					
ppropriate engineering ontrols	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof equipment. Eye wash fountain and emergency showers are recommended.				
dividual protection measures, s General information	Personal prote	ctive equipment should	be chosen according to the C sonal protective equipment.	EN standards and in	
Eye/face protection	Use approved safety goggles or face shield.				
Skin protection					
- Hand protection	Wear protective gloves. Butyl rubber gloves are recommended. Breakthrough time >120 min. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.				
- Other	Normal work clothing (long sleeved shirts and long pants) is recommended.				
Respiratory protection	In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with gas filter (type A2).				
Thermal hazards			lothing, when necessary.		
ygiene measures	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.				
nvironmental exposure ontrols	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.				

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## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

**Appearance** 

Liquid. **Physical state Form** Aerosol Colour Clear.

Organic solvents. Odour **Odour threshold** Not available. Not available Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

-40.0 °C (-40.0 °F) Flash point **Evaporation rate** Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

1.8 %

Flammability limit - upper

9.5 %

(%)

Vapour pressure Not available. Not available. Vapour density Not available. Relative density Soluble in water. Solubility(ies) Partition coefficient Not available.

(n-octanol/water)

410 - 580 °C (770 - 1076 °F) **Auto-ignition temperature** 

Not available. **Decomposition temperature** Not available. **Viscosity** Not explosive. **Explosive properties Oxidising properties** Not oxidising

9.2. Other information

10.4. Conditions to avoid

< 693 g/lVOC

## **SECTION 10: Stability and reactivity**

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

Risk of ignition. Material is stable under normal conditions. 10.2. Chemical stability 10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

temperatures exceeding 50°C.

Strong oxidising agents. Strong reducing agents. 10.5. Incompatible materials

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or 10.6. Hazardous

vapours. decomposition products

## **SECTION 11: Toxicological information**

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

#### Information on likely routes of exposure

Inhalation Vapours may cause drowsiness and dizziness. In high concentrations, vapours may be irritating

to the respiratory system.

Skin contact Repeated exposure may cause skin dryness or cracking.

Eye contact Causes serious eye irritation.

Ingestion Not likely, due to the form of the product. However: Ingestion may cause irritation and malaise.

**Symptoms** Symptoms may include redness, oedema, drying, defatting and cracking of the skin. Irritation of

eyes and mucous membranes. Symptoms of overexposure may be headache, dizziness,

Heat, flames and sparks. Pressurized container. Protect from sunlight and do not expose to

tiredness, nausea and vomiting.

#### 11.1. Information on toxicological effects

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Arrhythmia, (deviation from normal heart beat). In high concentrations, vapours and aerosol mists Acute toxicity

have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

**Species** Components **Test Results** 

Acetone (CAS 67-64-1)

Acute **Dermal** 

LD50 Rabbit > 7400 mg/kg

Inhalation

LC50 Rat 76 mg/l, 4 Hours

Oral

LD50 Rat 5800 mg/kg

Skin corrosion/irritation

Serious eye damage/eye

irritation

Repeated exposure may cause skin dryness or cracking.

Causes serious eye irritation.

Based on available data, the classification criteria are not met. Respiratory sensitisation Skin sensitisation Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity

Specific target organ toxicity -

single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity -

repeated exposure

Based on available data, the classification criteria are not met.

Not likely, due to the form of the product. Aspiration hazard

Mixture versus substance

information

Not applicable.

Other information No other specific acute or chronic health impact noted.

# **SECTION 12: Ecological information**

The product is not classified as environmentally hazardous. However, this does not exclude the 12.1. Toxicity

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components **Test Results Species** 

Acetone (CAS 67-64-1)

**Aquatic** 

NOEC Algae Algae 430 mg/l, 96 hours Crustacea LC50 Water flea (Daphnia pulex) 8800 mg/l, 48 hours

NOEC Water flea (Daphnia magna) 2212 mg/l, 28 days (reproduction)

Fish LC50 Oncorhynchus mykiss 5540 mg/l, 96 hours

12.2. Persistence and

degradability

The product is expected to be biodegradable.

12.3. Bioaccumulative potential The product is not expected to bioaccumulate.

**Partition coefficient** n-octanol/water (log Kow)

Acetone (CAS 67-64-1) -0.24

**Bioconcentration factor (BCF)** Not available.

The product contains organic solvents which will evaporate easily from all surfaces. 12.4. Mobility in soil

The product contains volatile organic compounds (VOC) which will evaporate easily from all Mobility in general

surfaces.

12.5. Results of PBT

and vPvB assessment This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

12.6. Other adverse effects The product is a volatile organic compound which has a photochemical ozone creation potential.

## **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

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**Residual waste** Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

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

EU waste code 14 06 03\*

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

disposal company.

**Disposal methods/information** 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.

**Special precautions**Dispose of in accordance with local regulations.

## **SECTION 14: Transport information**

#### **ADR**

**14.1. UN number** UN1950

**14.2. UN proper shipping** Aerosols, flammable

name

14.3. Transport hazard class(es)

Class 2.1
Subsidiary risk Label(s) 2.1
Hazard No. (ADR) Tunnel restriction code (D)
14.4. Packing group 14.5. Environmental hazards No

14.6. Special precautions

Read safety instructions, SDS and emergency procedures before handling.

for user

RID

**14.1. UN number** UN1950

**14.2. UN proper shipping** Aerosols, flammable

name

14.3. Transport hazard class(es)

Class 2.1
Subsidiary risk Label(s) 2.1
14.4. Packing group 14.5. Environmental hazards No.

**14.6. Special precautions** Read safety instructions, SDS and emergency procedures before handling.

for user

**ADN** 

**14.1. UN number** UN1950

**14.2. UN proper shipping** Aerosols, flammable

name

14.3. Transport hazard class(es)

Class 2.1
Subsidiary risk Label(s) 2.1
14.4. Packing group 14.5. Environmental hazards No

**14.6. Special precautions** Read safety instructions, SDS and emergency procedures before handling.

for user

IATA

**14.1. UN number** UN1950

**14.2. UN proper shipping** Aerosols, flammable

name

14.3. Transport hazard class(es)

Class 2.1
Subsidiary risk Label(s) 2.1
14.4. Packing group 14.5. Environmental hazards No

**14.6. Special precautions** Read safety instructions, SDS and emergency procedures before handling.

for user

**IMDG** 

**14.1. UN number** UN1950

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**14.2. UN proper shipping** Aerosols, flammable

F-D. S-U

name

14.3. Transport hazard class(es)
Class 2.1
Subsidiary risk Label(s) 2.1

14.4. Packing group 14.5. Environmental hazards
Marine pollutant No

EmS
14.6. Special precautions

for user

Read safety instructions, SDS and emergency procedures before handling.

**14.7. Transport in bulk** Not applicable.

according to Annex II of MARPOL 73/78 and the IBC

Code

## **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## **EU** regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

## **Authorisations**

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended Not listed.

#### Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Acetone (CAS 67-64-1)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

# Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Acetone (CAS 67-64-1)

Other regulations This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as

amended. The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended and respective national laws implementing EC directives.

**National regulations** Follow national regulation for work with chemical agents.

Young people under 18 years old are not allowed to work with this product according to the EU

Directive 94/33/EC on the protection of young people at work.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

# **SECTION 16: Other information**

#### List of abbreviations

DNEL: Derived No-Effect Level.

PNEC: Predicted No-Effect Concentration.

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LD50: Lethal Dose, 50%.

LC50: Lethal Concentration, 50%.

NOEC: No observed effect concentration.

References

Not available.

Information on evaluation method leading to the classification of mixture

The mixture is classified based on test data for physical hazards. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if

available. For details, refer to Sections 9, 11 and 12.

Full text of any H-statements not written out in full under Sections 2 to 15

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

This SDS contains revisions in the following section(s):

2, 3, 6, 7, 8, 9, 10, 11, 12, 15, 16.

Training information

Follow training instructions when handling this material.

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently

available.

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