



# SAFETY DATA SHEET

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

### 1.1. Product identifier

Trade name or designation of the mixture	HYLO@CLEAN
Registration number	-
Synonyms	None.
SDS number	46
Issue date	16-October-2014
Version number	01
Revision date	-
Supersedes date	-

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

Identified uses	Solvent cleaner.
Uses advised against	None known.

### 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 number	1-760-476-3961
	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 Directive 67/548/EEC or 1999/45/EC as amended

**Classification** F+;R12, Xi;R36, R66-67

The full text for all R-phrases is displayed in section 16.

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

<b>Physical hazards</b>			
Aerosols	Category 1		H222 - Extremely flammable aerosol.
<b>Health hazards</b>			
Serious eye damage/eye irritation	Category 2		H319 - Causes serious eye irritation.
Specific target organ toxicity - single exposure	Category 3 narcotic effects		H336 - May cause drowsiness or dizziness.

#### Hazard summary

<b>Physical hazards</b>	Extremely flammable.
<b>Health hazards</b>	Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.
<b>Environmental hazards</b>	Not classified for hazards to the environment.
<b>Specific hazards</b>	Irritating to eyes. Dries out the skin. Pressurised container may explode when exposed to heat or flame.
<b>Main symptoms</b>	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. May cause discomfort if swallowed.

### 2.2. Label elements

**Label according to Regulation (EC) No. 1272/2008 as amended****Contains:** Acetone**Hazard pictograms****Signal word** Danger**Hazard statements**

H222 Extremely flammable aerosol.  
 H319 Causes serious eye irritation.  
 H336 May cause drowsiness or dizziness.

**Precautionary statements****Prevention**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 P211 Do not spray on an open flame or other ignition source.  
 P251 Do not pierce or burn, even after use.

**Response**

P312 Call a POISON CENTRE or doctor/physician if you feel unwell.

**Storage**

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

**Disposal**

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

**Supplemental label information** EUH066 - Repeated exposure may cause skin dryness or cracking.**2.3. Other hazards** None known.**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	-	606-001-00-8	#
<b>Classification:</b>		<b>DSD:</b> F;R11, Xi;R36, R66-67			
		<b>CLP:</b> Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336			
Petroleum gases, liquified	30 - 60	68476-85-7 270-704-2	-	649-202-00-6	
<b>Classification:</b>		<b>DSD:</b> F+;R12			K,S
		<b>CLP:</b> Flam. Gas 1;H220			K,S,U

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

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

#: 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 (Table 3.1) or the S-phrases (2-9-16 (Table 3.2) should apply. This note applies only to certain complex oil-derived substances in Part 3.

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**

The full text for all R- and H-phrases is displayed in section 16. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**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

<b>Inhalation</b>	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.
<b>Skin contact</b>	Take off immediately all contaminated clothing. Wash skin thoroughly with soap and water. If irritation persists get medical attention.
<b>Eye contact</b>	Flush eyes thoroughly with water for at least 15 minutes. Remove any contact lenses. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Not likely, due to the form of the product. However: Rinse mouth thoroughly. Drink a few glasses of 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. May cause discomfort if swallowed.

#### 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.

### 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	Type	Value
Acetone (CAS 67-64-1)	STEL	3620 mg/m <sup>3</sup> 1500 ppm
	TWA	1210 mg/m <sup>3</sup> 500 ppm
Petroleum gases, liquified (CAS 68476-85-7)	STEL	2180 mg/m <sup>3</sup> 1250 ppm
	TWA	1750 mg/m <sup>3</sup> 1000 ppm

##### EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Type	Value
Acetone (CAS 67-64-1)	TWA	1210 mg/m <sup>3</sup> 500 ppm

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Follow standard monitoring procedures.

**Derived no-effect level (DNEL)** Not available.

**Predicted no effect concentrations (PNECs)** Not available.

### 8.2. Exposure controls

**Appropriate engineering controls** Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours. Use explosion-proof equipment. Eye wash fountain and emergency showers are recommended.

#### Individual protection measures, such as personal protective equipment

**General information** Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**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** Wear appropriate thermal protective clothing, when necessary.

**Hygiene 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.

**Environmental exposure controls** Environmental manager must be informed of all major releases.

## SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Liquid.
<b>Physical state</b>	Liquid.
<b>Form</b>	Aerosol
<b>Colour</b>	Colourless.
<b>Odour</b>	Acetone.
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.

<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	Soluble in water.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Explosive properties</b>	Not available.
<b>Oxidizing properties</b>	Not available.
<b>9.2. Other information</b>	
<b>Explosive limit</b>	Not available.
<b>VOC (Weight %)</b>	> 60 % (Hylomar Test Method 1.1A Determination of Volatile Matter)

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	The product is stable and non reactive under normal conditions of use, storage and transport.
<b>10.2. Chemical stability</b>	Risk of ignition. Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>10.4. Conditions to avoid</b>	Heat, flames and sparks.
<b>10.5. Incompatible materials</b>	Strong oxidising agents. Strong reducing agents.
<b>10.6. Hazardous decomposition products</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

## SECTION 11: Toxicological information

<b>General information</b>	Occupational exposure to the substance or mixture may cause adverse effects.
<b>Information on likely routes of exposure</b>	
<b>Inhalation</b>	Vapours may cause drowsiness and dizziness. In high concentrations, vapours may be irritating to the respiratory system.
<b>Skin contact</b>	Prolonged or repeated skin contact may cause drying, cracking, or irritation.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	Not likely, due to the form of the product. However: Ingestion may cause irritation and malaise.
<b>Symptoms</b>	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. May cause discomfort if swallowed.

### 11.1. Information on toxicological effects

#### Acute toxicity

Components	Species	Test results
Acetone (CAS 67-64-1)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	20 ml/kg
<i>Inhalation</i>		
LC50	Rat	50 mg/l, 8 Hours

Components	Species	Test results
Oral LD50	Rat	5800 mg/kg
<b>Skin corrosion/irritation</b>	Prolonged or repeated skin contact may cause drying, cracking, or irritation.	
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.	
<b>Respiratory sensitisation</b>	Not classified.	
<b>Skin sensitisation</b>	Not classified.	
<b>Germ cell mutagenicity</b>	Not classified.	
<b>Carcinogenicity</b>	Not classified.	
<b>Reproductive toxicity</b>	Not classified.	
<b>Specific target organ toxicity - single exposure</b>	May cause drowsiness or dizziness.	
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.	
<b>Aspiration hazard</b>	Not classified.	
<b>Mixture versus substance information</b>	Not applicable.	
<b>Other information</b>	No other specific acute or chronic health impact noted.	

## SECTION 12: Ecological information

**12.1. Toxicity** 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.

Components	Species	Test results
Acetone (CAS 67-64-1) Aquatic Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> ) > 100 mg/l, 96 hours
<b>12.2. Persistence and degradability</b>	The product is expected to be biodegradable.	
<b>12.3. Bioaccumulative potential</b>	The product is not expected to bioaccumulate.	
<b>Partition coefficient n-octanol/water (log Kow)</b> Acetone (CAS 67-64-1)		-0.24
<b>Bioconcentration factor (BCF)</b>	Not available.	
<b>12.4. Mobility in soil</b>	The product contains organic solvents which will evaporate easily from all surfaces.	
<b>Mobility in general</b>	The acetone component is miscible with water and may spread in water systems.	
<b>12.5. Results of PBT and vPvB assessment</b>	Not a PBT or vPvB substance or mixture.	
<b>12.6. Other adverse effects</b>	The product is a volatile organic compound which has a photochemical ozone creation potential.	

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Residual waste</b>	Do not discharge into rivers, lakes, mountains, etc. because the product may affect the environment.
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>EU waste code</b>	16 05 08* The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	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.
<b>Special precautions</b>	Dispose of in accordance with local regulations.

## SECTION 14: Transport information

### ADR

<b>14.1. UN number</b>	UN1950
<b>14.2. UN proper shipping name</b>	Aerosols, flammable

**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 name Aerosols, flammable

**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 name Aerosols, flammable

**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 name Aerosols, flammable

**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

14.2. UN proper shipping name Aerosols, flammable

**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 F-D, S-U

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

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

## 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**

Not listed.

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II**

Not listed.

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

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended**

Not listed.

**Regulation (EC) No. 689/2008 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**

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**

Petroleum gases, liquified (CAS 68476-85-7)

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding**

Petroleum gases, liquified (CAS 68476-85-7)

#### Other EU regulations

**Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances**

Not listed.

**Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**

Acetone (CAS 67-64-1)

Petroleum gases, liquified (CAS 68476-85-7)

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

Petroleum gases, liquified (CAS 68476-85-7)

#### Other regulations

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. The product is classified and labelled in accordance with EC directives or respective national laws. 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

CLP: Regulation No. 1272/2008.  
DSD: Directive 67/548/EEC.  
DNEL: Derived No-Effect Level.  
PNEC: Predicted No-Effect Concentration.  
LD50: Lethal Dose, 50%.  
LC50: Lethal Concentration, 50%.

#### 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 statements or R-phrases and H-statements under Sections 2 to 15**

R11 Highly flammable.  
R12 Extremely flammable.  
R36 Irritating to eyes.  
R66 Repeated exposure may cause skin dryness or cracking.  
R67 Vapours may cause drowsiness and dizziness.  
H220 Extremely flammable gas.  
H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

**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.