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SAFETY DATA SHEET
Stirling Lloyd Solvent No. 1

According to Regulation (EC) No 1907/2006

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name Stirling Lloyd Solvent No. 1
REACH Registration Number 01-2119471330-49-XXXX
CAS-No. 67-64-1
EU Index No. 606-001-00-8
EC No. 200-662-2

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

Identified uses Solvent
Uses Advised Against Must not be handled in confined space without sufficient ventilation.

1.3. Details of the supplier of the safety data sheet

Supplier: STIRLING LLOYD POLYCHEM LTD.
 UNION BANK, KING STREET,
 KNUTSFORD,
 CHESHIRE, WA16 6EF.
 T : +44(0)1565 633111
 (Technical/Commercial enquiries)
 F : +44(0)1565 633555
 sdsadministrator@stirlinglloyd.com

1.4. Emergency telephone number

For chemical emergencies please contact the National Chemical Emergency Centre on :-
 +44 (0)870 190 6777

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards Flam. Liq. 2 - H225
 Human health EUH066;Eye Irrit. 2 - H319;STOT Single 3 - H336
 Environment Not classified.

Classification (1999/45/EEC)

Xi;R36. F;R11. R66, R67.

2.2. Label elements

EC No. 200-662-2
Contains: ACETONE
Label In Accordance With (EC) No. 1272/2008



Signal Word Danger

Hazard Statements

H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

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Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P243	Take precautionary measures against static discharge.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Supplementary Precautionary Statements

P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241a	Use explosion-proof electrical equipment.
P242	Use only non-sparking tools.
P261e	Avoid breathing vapours.
P264a	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P337	If eye irritation persists:
P370	In case of fire:
P378a	Use alcohol-resistant foam, carbon dioxide or dry powder for extinction.
P501a	Dispose of contents/container in accordance with local regulations.

Supplemental Label Information (EU)

EUH066	Repeated exposure may cause skin dryness or cracking.
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2.3. Other hazards

This product does not contain any PBT or vPvB Substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

ACETONE	60-100%
CAS-No.: 67-64-1	EC No.: 200-662-2
Classification (EC 1272/2008)	Classification (67/548/EEC)
Flam. Liq. 2 - H225	F;R11
EUH066	Xi;R36
Eye Irrit. 2 - H319	R66
STOT Single 3 - H336	R67

The Full Text for all R-Phrases and Hazard Statements is Displayed in Section 16

REACH Registration Number	01-2119471330-49-XXXX
CAS-No.	67-64-1
EU Index No.	606-001-00-8
EC No.	200-662-2

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Information

NOTE! Keep affected person away from heat, sparks and flames!

Inhalation.

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.

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Ingestion

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! DO NOT INDUCE VOMITING! Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Get medical attention immediately!

Skin Contact

Remove affected person from source of contamination. Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Get medical attention if any discomfort continues.

Eye Contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

General Information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

Inhalation.

Vapours may cause headache, fatigue, dizziness and nausea.

Ingestion

May cause nausea, headache, dizziness and intoxication. Burning sensation in mouth. May cause stomach pain or vomiting.

Skin Contact

Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.

Eye Contact

Irritation, burning, lachrymation, blurred vision after liquid splash.

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

No specific first aid measures noted.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing Media

Use: Foam. Carbon dioxide (CO2). Water spray, fog or mist. Dry chemicals, sand, dolomite etc.

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

Hazardous Combustion Products

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

Unusual Fire & Explosion Hazards

Forms explosive mixtures with air. May explode in a fire. May travel considerable distance to source of ignition and flash back. Vapours are heavier than air and may spread near ground to sources of ignition.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Use water spray to reduce vapours. Water spray may be used to flush spills away from exposures and dilute spills to non-flammable mixtures.

Protective Measures In Fire

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

6.2. Environmental precautions

Do not allow to enter drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Stop leak if possible without risk. Provide ventilation and confine spill. Do not allow runoff to sewer. Collect for reclamation or absorb in vermiculite, dry sand or similar material. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

6.4. Reference to other sections

For personal protection, see section 8. See section 11 for additional information on health hazards.

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SECTION 7: HANDLING AND STORAGE**7.1. Precautions for safe handling**

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Static electricity and formation of sparks must be prevented. Use explosion proof electric equipment.

7.2. Conditions for safe storage, including any incompatibilities

Flammable/combustible - Keep away from oxidisers, heat and flames. May attack some plastics, rubber and coatings. Store in tightly closed original container in a dry, cool and well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks.

Storage Class

Flammable liquid storage.

7.3. Specific end use(s)**Usage Description**

Solvent

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
ACETONE	WEL	500 ppm	1210 mg/m ³	1500 ppm	3620 mg/m ³	

WEL = Workplace Exposure Limit.

DNEL	Industry	Dermal	Long Term	186 mg/kg/day
DNEL	Industry	Inhalation.	Short Term	2420 mg/m ³
DNEL	Industry	Inhalation.	Long Term	1210 mg/m ³
DNEL	Consumer	Oral	Long Term	62 mg/kg/day
DNEL	Consumer	Dermal	Long Term	62 mg/kg/day
DNEL	Consumer	Inhalation.	Long Term	200 mg/m ³
PNEC	Freshwater	10.6	mg/l	
PNEC	Marinewater	1.06	mg/l	
PNEC	Sediment	30.4	mg/kg	
PNEC	Sediment	3.04	mg/kg	
PNEC	Soil	29.5	mg/kg	
PNEC	STP	29.5	mg/l	

8.2. Exposure controls**Protective Equipment****Engineering Measures**

Explosion-proof general and local exhaust ventilation.

Respiratory Equipment

Gas mask with organic vapour canister (chin-style).

Hand Protection

Use protective gloves made of: Butyl rubber. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye Protection

Wear approved safety goggles.

Other Protection

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. Wear appropriate clothing to prevent repeated or prolonged skin contact. Wear air-supplied mask in confined areas.

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Hygiene Measures

DO NOT SMOKE IN WORK AREA! Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Use appropriate hand lotion to prevent defatting and cracking of skin.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Liquid Clear
Colour	Colourless
Odour	Pleasant, agreeable. Characteristic Acetone, ketone.
Solubility	Miscible with water Miscible with: Alcohol Ether.
Initial Boiling Point and Boiling Range:	~ 56°C @ 760 mm Hg
Melting Point (°C)	~ -95
Relative Density	0.79 @ 20 °C
Vapour Density (Air=1)	2
Vapour Pressure	182.00 hPa @ 20 °C
Evaporation Rate	2 (EtEt=1)
Evaporation Factor	1.40
Viscosity	0.32 mPas @ 20 °C
Solubility Value (G/100G H ₂ O@20°C)	100.00
Odour Threshold, Lower	100.00
Flash Point (°C)	~ -18°C CC (Closed cup).
Auto Ignition Temperature (°C)	465°C
Flammability Limit - Lower(%)	2.15%
Flammability Limit - Upper(%)	13.30%
Partition Coefficient (N-Octanol/Water)	-0.24

9.2. Other information

Refractive Index	1.358-1.359
Mol. Weight	58.08
Volatile By Vol. (%)	100%

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Will react violently with: Strong oxidising substances. Reacts with alkalis and amines generating excessive heat.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Hazardous Polymerisation

Will not polymerise.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidisers.

10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances.

10.6. Hazardous decomposition products

During fire, toxic gases (CO, CO₂) are formed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxic Dose 1 - LD 50	5800 mg/kg (oral rat)
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Other Health Effects

IARC Not Listed. NTP Not Listed.

Acute Toxicity (Oral LD50)	5800 mg/kg Rat
Acute Toxicity (Dermal LD50)	20000 mg/kg Rabbit
Acute Toxicity (Inhalation LC50)	76 mg/l (vapours) Rat 4 hours
Skin Corrosion/Irritation - Animal Data	Rabbit

Draize test: Slightly irritating.

Serious Eye Damage/Irritation Draize test: Irritating to eyes.

Respiratory Sensitisation

Guinea Pig

There is no evidence that the material can lead to respiratory hypersensitivity.

Skin Sensitisation

Mouse

Not Sensitising.

Germ Cell Mutagenicity (In Vitro)

Gene Mutation:

Negative.

Carcinogenicity

NOAEL 79 mg/kg Dermal Rat

Inhalation

Vapours may cause drowsiness and dizziness.

Skin Contact

Repeated exposure may cause skin dryness or cracking.

Eye Contact

Irritating to eyes.

Health Warnings

Gas or vapour is harmful on prolonged exposure or in high concentrations. Gas or vapour is harmful on prolonged exposure or in high concentrations. Irritant of eyes and mucous membranes. Narcotic effect. CNS depressant. Prolonged or repeated contact leads to drying of skin. Repeated exposure may cause chronic eye irritation.

Route of entry

Inhalation. Skin absorption. Ingestion. Skin and/or eye contact.

Target Organs

Central nervous system Eyes Gastro-intestinal tract Respiratory system, lungs Skin

Medical Symptoms

Irritation of eyes and mucous membranes. Upper respiratory irritation. Skin irritation.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Acute Fish Toxicity

Not considered toxic to fish.

Acute Toxicity - Fish LC50 96 hours 5540 mg/l Onchorhynchus mykiss (Rainbow trout)

Acute Toxicity - Aquatic Invertebrates EC50 48 hours 8800 mg/l Daphnia magna

Acute Toxicity - Aquatic Plants EC50 96 hours 7000 mg/l Selenastrum capricornutum

Chronic Toxicity - Aquatic Invertebrates NOEC 28 days 2212 mg/l Daphnia magna

12.2. Persistence and degradability

Phototransformation Air. DT50 ~ 15 days

Stability (Hydrolysis)

No significant reaction in water.

Biodegradation

Water 84 Degradation (%): 5 days

The substance is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative Potential:

The product is not bioaccumulating.

Bioaccumulation Factor BCF 3

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Partition Coefficient log Pow -0.24

12.4. Mobility in soil**Mobility:**

Highly volatile. The product is miscible with water. May spread in water systems.

Henry's Law Constant 2.303 Pa m³/mol

Surface Tension 23.3 mN/m

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN) 1090

UN No. (IMDG) 1090

UN No. (ICAO) 1090

14.2 UN Proper shipping name

Proper Shipping Name ACETONE

14.3 Transport hazard class(es)

ADR/RID/ADN Class 3

ADR/RID/ADN Class Class 3: Flammable liquids.

ADR Label No. 3

IMDG Class 3

ICAO Class/Division 3

Transport Labels

**14.4. Packing group**

ADR/RID/ADN Packing group II

IMDG Packing group II

ICAO Packing group II

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

EMS F-E, S-D

Emergency Action Code 2YE

Hazard No. (ADR) 33

Tunnel Restriction Code (D/E)

Stirling Lloyd Solvent No. 1**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable. No information required.

SECTION 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU Legislation**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

National Regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 ("CDG 2009"), SI 2009 No 1348

Health And Environmental Listings

Regulation EC 2037/2000 on substances that deplete the ozone layer. Regulation EC 850/2004 on persistent organic pollutants. Regulation EC 689/2008 concerning the export and import of dangerous chemicals. None of the ingredients are listed.

Authorisations (Title VII Regulation 1907/2006)

No specific authorisations are noted for this product.

Restrictions (Title VIII Regulation 1907/2006)

No specific restrictions of use are noted for this product.

Water Hazard Classification

WGK 1

15.2. Chemical Safety Assessment

A chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION**General Information**

This product is intended for use for the application set out in the technical data sheet only.

The Risk Phrases shown below relate to the individual components in Section 3 and NOT to the Product.

The Risk Phrases for the Product are shown in Section 2.

Revision Date 24/06/2011

Risk Phrases In Full

R11 Highly flammable. , R36 Irritating to eyes. , R66 Repeated exposure may cause skin dryness or cracking. , R67 Vapours may cause drowsiness and dizziness.

Hazard Statements In Full

EUH066 Repeated exposure may cause skin dryness or cracking. , H225 Highly flammable liquid and vapour. , H319 Causes serious eye irritation. , H336 May cause drowsiness or dizziness.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.