



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product Identifier

Material name : Induction & EGR Cleaner

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

Product use : Solvent cleaner

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Central Solutions (GB) Ltd
Sol-X House
Windmill Lane
Norton
Doncaster
DN6 9AT

Tel. : +44 (0)1302 708895

Fax. : +44 (0)1302 708895

Email (for SDSs) : info@solxsolutions.com

1.4 Emergency tel. no.: +44 (0)1302 708895 (Office hours)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to 1272/2008/EC: Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation:

Physical and Chemical Hazards	Flam. Aerosol, Category 1; H222; H229
Human health	Ac.Tox.4; H312, H332; Sk. Irrit. 2; H315; STOT RE2; H373; STOT SE3; H336; Repr.2; H361
Environment	Not classified

2.2 Label elements

Labelling according to EC Directives: 1272/2008/EC:

Signal word: Danger Contains: Toluene, Xylene, Acetone.

Pictogram(s):



Hazard Statements:	H222	Extremely flammable aerosol.
	H229	Pressurised container: May burst if heated.
	H312	Harmful in contact with skin
	H315	Causes skin irritation.
	H332	Harmful if inhaled
	H336	May cause drowsiness or dizziness.
	H361	Suspected of damaging fertility or the unborn child
	H373	May cause damage to organs through prolonged or repeated exposure

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 Regulation (EC) No. 453/2010

Precautionary

Statements:	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P211	Do not spray on an open flame or other ignition source.
	P251	Do not pierce or burn, even after use.
	P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C.
	P280	Wear protective gloves/eye/face protection.
	P302+P352	IF ON SKIN: Wash with plenty of soap and water.
	P332+P313	IF skin irritation occurs: Get medical advice/attention.
	P304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
	P337+313	If eye irritation persists get medical advice/attention.

2.3 Other hazards In use, may form flammable / explosive vapour-air mixture.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures:

Hazardous components

Chemical Name	CAS No./ EC No./ Reg. No	Classification (1272/2008/EC)	Content
TOLUENE	108-88-3 203-625-9 01-2119471310-51-xxxx	Flam. Liq. 2 H225 Skin Irrit. 2 H315 Repr. 2 H361fdi STOT SE 3 H336 STOT RE2 H373i Asp. Tox. 1 H304	30-40%
XYLENE	1330-20-7 215-535-7 01-2119488216-32-xxxx	Flam. Liq. 3 H226 Skin Irrit. 2 H315 Acute Tox.4 H312 Acute Tox.4 H332	20-30%
ACETONE	67-64-1 200-662-2 01-2119471330-49-xxxx	Flam.Liq. 2; H225 Eye Irrit. 2; H319 STOT SE3; H336 EUH066	1-10%
LIQUEFIED PETROLEUM GAS (contains <0.1% 1,3-butadiene)	68476-85-7 270-704-2 -	Flam.Gas 1; H220 Gas under pressure; H280	10-30%

See Section 16 for the full text of the H-statements noted above.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Remove casualty from exposure ensuring one's own safety whilst doing so. Take off any contaminated clothing and shoes/boots immediately. Never give anything by mouth to an unconscious person.

Skin contact: Wash with soap and water. Seek medical advice if irritation develops.

Eye contact: Rinse with water for 10 minutes and seek medical advice if irritation persists.

Ingestion: Rinse mouth with water and give water to drink. Do not induce vomiting. Seek medical advice.

Inhalation: Remove to fresh air. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed: May cause irritation eyes, and to skin with repeated or prolonged contact.

4.3 Indication of any immediate medical attention and special treatment needed: See skin and eye contact information above.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Carbon dioxide; dry chemical powder; alcohol or polymer foam.
Unsuitable extinguishing media: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting: Irritating/toxic fumes may be released at elevated temperatures.

5.3 Advice for fire-fighters:

Special protective equipment: Wear self-contained breathing apparatus. Use personal protective equipment.
Further information: Standard procedure for chemical fires. Use water spray to cool containers.
Do not allow fire run-off to enter drains.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Use personal protective equipment to deal with spillage. Remove all sources of ignition. Do not use equipment to deal with the spillage which may generate electrostatic charges. Use non-sparking tools.

6.2 Environmental precautions

Contain the spillage using sufficient appropriate absorbent material. Do not discharge into drains or rivers, but if contamination to waterways has occurred, inform local authorities.

6.3 Methods and materials for containment and cleaning up

Wipe up liquid spillage with absorbent material such as sand, earth, or vermiculite, and place in a labelled container for disposal in accordance with local/national regulations. Ensure adequate ventilation and allow residues to evaporate.

6.4 References to other sections

See sections 8 and 13 for personal protection and disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not breathe spray mist. Avoid contact with skin and eyes. Handle with care.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, well ventilated area, below 50°C. Protect from frost, heat and sunlight. Keep away from food, drink and animal feed.

7.3 Specific end use(s): No information available.

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

Chemical name	8hr TWA	15min STEL	Reference
Toluene	191 mg/m ³ /50 ppm	284 mg/m ³ 100 ppm	(Sk)
Xylene	220 mg/m ³ /50 ppm	441 mg/m ³ 100 ppm	(Sk)
Acetone	1210 mg/m ³ /500 ppm	3620 mg/m ³ /1500ppm	EH40/2005
Liquefied petroleum gas	1750 mg/m ³ /1000ppm	2810 mg/m ³ /1250 ppm	EH40/2005

DNEL Information

Area of application	Exposure route	Acetone
Consumer	Inhalation-Long term systemic effects	200 mg/m ³
Consumer	Dermal-Long term systemic effects	62 mg/kg/bw/day
Consumer	Oral-Long term systemic effects	62 mg/kg/bw/day
Workers/Employees	Inhalation-Short term systemic effects	2420 mg/m ³
Workers/Employees	Inhalation-Long term systemic effects	1210 mg/m ³
Workers/Employees	Dermal-Long term systemic effects	186 mg/kg/bw/day

PNEC Information

Environment	Acetone
Aquatic Compartment	
Fresh water	10.6 mg/l
Marine water	1.06 mg/l
Water-intermittent (sporadic) release	21 mg/l
Dry Sediment – fresh water	30.4 mg/kg
Dry Sediment – marine water	3.04 mg/kg
Terrestrial Compartment	
Dry soil	33.3 mg/kg
Sewage treatment plant	100 mg/l

8.2 Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Personal protective equipment

Respiratory protection: If vapour levels are high, wear a respirator conforming to EN 140 with type A filter or better.

Hand protection: Wear chemically resistant gloves such as butyl rubber approved to standard EN 374; material thickness 0.5mm; break through time \geq 480 min. Gloves must be replaced after 8 hours of wear. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Check with glove manufacturer for specific advice. (Sk) noted above means can be absorbed through skin.

Eye protection: Chemical splash goggles if eye contact is reasonably probable. The selected goggles or glasses must satisfy the European standard EN 166.

Skin and body protection: General workwear.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practices. Do not eat or drink whilst using the product. Wash hands before breaks and at the end of the work day. Wash contaminated clothing before re-use.

Environmental exposure controls: Do not discharge into drains or rivers.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

State and colour	Aerosol emitting colourless spray.
Odour	Characteristic
Odour Threshold	No data available
Flammability	Extremely flammable
Flash point	<0°C
Lower explosion limit	0.8%
Upper explosion limit	14.3%
Explosive properties	Not explosive
Thermal decomposition	No data available
Auto-ignition temperature	>230°C
Oxidising properties	Non-oxidising
Solubility in water	Partially soluble
Solubility in other solvents	Soluble in most organic solvents.
pH	Not applicable
Melting point/range	No data available
Boiling point/range	No data available
Density	No data available
Vapour pressure	No data available
Vapour density	No data available
Partition coefficient: n-octanol/water	No data available
Viscosity (kinematic)	Non-viscous
Evaporation rate	No data available

9.2 Other information No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity	Generally non-reactive.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	None if stored and used as directed.
10.4 Conditions to avoid	Hot surfaces, naked flames, sources of ignition.
10.5 Incompatible materials	None known.
10.6 Hazardous decomposition products	Oxides of carbon.

11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****Acute toxicity**

Chemical name	Oral (LD50)	Inhalation (LC50)	Dermal (LD50)
Toluene	636 mg/kg (Rat)	12,500-28,800 mg/m ³ (Rat)	12,196 mg/kg
Xylene	5251 mg/kg (Mouse)	5000 ppm (Rat) 4h	>1700 mg/kg (Rabbit)
Acetone	5800 mg/kg (Rat)	>50100 mg/m ³ (Rat)	7426 mg/kg (Guinea pig)
Liquefied petroleum gas	Not applicable	>20mg/l (Rat) 4h	Not applicable

Skin corrosion/irritation:	May be irritating to skin
Serious eye damage/eye irritation:	May be irritating to eyes.
Respiratory or skin sensitisation:	Not classed as a respiratory or skin sensitizer.
Repeated dose toxicity:	No data available.

11.1 Information on toxicological effects (continued)

- Carcinogenicity:** Not carcinogenic.
- Mutagenicity:** No known significant effects.
- Toxicity for reproduction:** Toluene is suspected of damaging fertility or the unborn child.
- Specific target organ toxicity (STOT):** May cause drowsiness or dizziness.

Further information: The product as a whole may cause irritation of skin, eyes, nose and upper respiratory tract if exposed to high levels of spray mist. May be harmful if inhaled.

12. ECOLOGICAL INFORMATION**12.1 Toxicity**

Chemical name	Species	Test	Value
Toluene	Daphnia	EC50 24h	8mg/l
	Rainbow trout	LC50 96h	7.63mg/l
	Algae	EC50 24h	245mg/l
Xylene	Daphnia	EC50 24h	3.82 mg/l
	Rainbow trout	LC50 96h	2.6 mg/l
	Algae	EC50 24h	4.63 mg/l
Acetone	Daphnia	EC50 48h	8800 mg/l
	Rainbow trout	LC50 96h	5540 mg/l
	Algae	NOEC 8h	530 mg/l

- 12.2 Persistence and degradability** Liquefied petroleum gas is expected to be readily biodegradable. Oxidises rapidly by photochemical reactions in air. Acetone is readily biodegradable.
- 12.3 Bioaccumulative potential** Not expected to bioaccumulate.
- 12.4 Mobility in soil** The liquid content is partially soluble in water.
- 12.5 Results of PBT and vPvB assessment** Contains no PBT or vPvB substances.
- 12.6 Other adverse effects** None expected.

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**


Disposal operations: Dispose of in accordance with local and national regulations.
Contact licensed waste disposal company. Most aerosols can be recycled.
Do not pierce or burn or use a cutting torch on the empty aerosol container.

14. TRANSPORT INFORMATION

General Information: The UN number for all aerosols is 1950. Aerosols packed in fibreboard cartons up to 30 kg gross weight, or shrink/stretch wrapped onto trays up to 20 kg gross weight may be transported as Limited Quantities, and should display the following symbol on the pack:



The following information relates to all other aerosols not transported as Limited Quantities:

14.1 UN number	ADR/RID/ADN; IMDG; ICAO	1950
14.2 UN proper shipping name	AEROSOLS	
14.3 Transport hazard class(es)	ADR/RID/ADN Class	2, 5F
	ADR/RID/ADN Class	Class 2, Gases
	ADR Label No.	2.1
	IMDG Class	2
	ICAO Class/Division	2
	ICAO Subsidiary risk	2.1
	Transport labels	
14.4 Packing Group	ADR/RID/ADN; IMDG; ICAO	Not applicable for aerosols
14.5 Environment hazards	Marine Pollutant	Not applicable for aerosols.
14.6 Special precautions for user	EMS	F-D,S-U
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code		Not applicable for aerosols.

15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****UK Regulatory References**

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2001 No.2677) with amendments.

EU Directives

Regulations (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.

Statutory Instruments

The Chemicals (Hazard information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Guidance Notes

Health and Safety Executive Workplace Exposure Limits EH40.

15.2 Chemical Safety Assessment

Chemical Safety Assessment/Reports (CSA/CSR) are not required for mixtures.

16. OTHER INFORMATION

This safety data sheet is prepared in accordance with Regulation (EC) No 1907/2006 (REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals) as amended and Regulation EU 453/2010.

Full text of H-statements referred to under sections 2 and 3

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
EUH066	Repeated exposure may cause skin dryness or cracking.

Abbreviations and acronyms

CAS: Chemical Abstract Service (division of the American Chemical Society). {Section 3}.

STOT: Single Target Organ Toxicity (Section 2;3;11).

SE: Single exposure (Section 2;3)

TWA: Time-weighted average. (Section 8).

STEL: Short-term exposure limit. (Section 8).

DNEL: Derived No Effect Level (Section 8).

PNEC: Predicted No Effect Concentration (Section 8).

PBT: Persistent, Bioaccumulative, Toxic. (Section 12).

vPvB: very Persistent and very Bioaccumulative. (Section 12).

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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