SDS ATTACHMENT

PLEASE ATTACH THIS COMPLETED SHEET TO THE SDS FOR:

PRODUCT:	AC90 Multipurpose Lubricant - LPG		
<u>DATE:</u> (SDS date)	8-Nov-22		
1. Manufacturer/Suppli	er: Tradegear Ltd Level 1, 99 Clarence Street Riccarton Christchurch 8011 New Zealand Phone: 0800 22 44 34 or +64 3 341 Fax: 0800 22 11 51 or +64 9 522 88 24 hr emergency contact: +64 21 510 Website: www.tradegear.co.nz Email: office@tradegear.co.nz	333	
Emergency Information	n: National Poison Centre:	0800 764 766	

2 & 15. Hazards Identification & Regulatory Requirements:

Product Name:	AC-90 LPG	
Group Standard, Approval #	Aerosols (Flammable) Group Standard 2006, HSR002515	
HSNO Classes (from GHS codes)	2.1.2A, 6.9B, 6.3A/6.4A, 9.1B	
Class 9 Hazard/Precautionary Statements Class 9 Hazard/Precautionary Statements Loss 6 Supply to public) Read SDS before use (supply Avoid release to the environment Collect spillage		
TEL or EEL applicable?	None	



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	AC-90 LPG			
Registration number	-			
Synonyms	None.			
Product code	UDS000733AE			
Issue date	08-November-2022			
Version number	1.0			
Revision date	08-November-2022			
1.2. Relevant identified uses of t	he substance or mixture and uses advised against			
Identified uses	Anti Corrosion Products			
Uses advised against	None known.			
1.3. Details of the supplier of the	safety data sheet			
Company name	CRC Industries UK Ltd.			
Address	Wylds Road			
	Castlefield Industrial Estate			
	TA6 4DD Bridgwater Somerset			
	United Kingdom			
Telephone	+44 1278 727200			
Fax	+44 1278 425644			
E-mail	hse.uk@crcind.com			
Website	www.crcind.com			
Company name	CRC Industries Europe by			
Address	Touwslagerstraat 1			
	9240 Zele			
	Belgium			
Telephone	+32(0)52/45.60.11			
Fax	+32(0)52/45.00.34			
E-mail	hse@crcind.com			
Website	www.crcind.com			
	Tel (144)(0)1079 70 7000 (office hours) 0 17h CMT)			

1.4. Emergency telephone number

Tel.:(+44)(0)1278 72 7200 (office hours: 9-17h GMT)

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

2.2. Label elements

Contains:

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

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Hazard pictograms



Signal word	Danger
Hazard statements	
H222 H229 H336	Extremely flammable aerosol. Pressurized container: May burst if heated. May cause drowsiness or dizziness.
Precautionary statements	
Prevention	
P102 P210 P211 P251 P261 P271	Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid breathing mist/vapours. Use only outdoors or in a well-ventilated area.
Response	Not assigned.
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	This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	30 - 60	- 919-857-5	01-2119463258-33	-	
Classification:	Flam. Liq.	3;H226, STOT SE 3;	H336, Asp. Tox. 1;H304		
Highly refined low mineral 1 - 20 oils/hydrocarbons -					
Classification:	Asp. Tox.	1;H304			

List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. #: This substance has been assigned Union workplace exposure limit(s).

Composition comments 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 meas	ures	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison centre or doctor/physician if you feel unwell.	
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.	
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.	
Ingestion	In the unlikely event of swallowing contact a physician or poison control centre.	
4.2. Most important symptoms and effects, both acute and delayed	May cause drowsiness or dizziness. Headache. Nausea, vomiting.	

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards	Extremely flammable aerosol.
5.1. Extinguishing media Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
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	Contents under pressure. Pressurised container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Special fire fighting procedures	Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapour pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Use water spray to cool unopened containers. In the event of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protect	ctive equipment and emergency procedures
For non-emergency personnel	Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
For emergency responders	Keep unnecessary personnel away. Avoid breathing mist/vapours. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.
6.2. Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material.
	Large Spills: Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Scoop up used absorbent into drums or other appropriate container. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use.
6.4. Reference to other sections	Not available.
CECTION 7. Usedling and	-4

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Pressurised 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. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Avoid breathing mist/vapours. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Keep away from heat, sparks and open flame. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Storage class (TRGS 510): 2B (Aerosol dispensers and lighters)
7.3. Specific end use(s)	Not available.
SECTION & Exposure of	untrole/narconal protection

SECTION 8: Exposure controls/personal protection

8.1. Control parameters	
Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Recommended monitoring procedures	Not available.

Derived no effect levels (DNELs)

Derived no effect levels (DNELs)				
General population					
Components		Value	Assessment factor	Notes	
Hydrocarbons, C9-C11, n-alk	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics (CAS -)				
Long-term, Systemic, Dermal		300 mg/kg 900 mg/m3			
	Long-term, Systemic, Inhalation				
Long-term, Systemic, Ora	al	300 mg/kg			
<u>Workers</u>					
Components		Value	Assessment factor	Notes	
Hydrocarbons, C9-C11, n-alk	anes, isoalkanes	, cyclics, < 2% aromatic	s (CAS -)		
Long-term, Systemic, De Short-term, Systemic, Inł		300 mg/kg 1500 mg/m3			
Predicted no effect concentrations (PNECs)	Not available.				
8.2. Exposure controls					
Appropriate engineering controls	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.				
Individual protection measures,	such as persor	nal protective equipme	nt		
General information	Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.				
Eye/face protection	Wear safety glasses with side shields (or goggles). Use eye protection conforming to EN 166.				
Skin protection					
- Hand protection	When handling the product wear chemical-resistant gloves (standard EN 374). The breakthrough time of the glove should be longer than the total duration of product use. If work lasts longer than the breakthrough time, gloves should be changed part-way through. Nitrile gloves are recommended. Suitable gloves can be recommended by the glove supplier.				
- Other	Wear suitable protective clothing.				
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Chemical respirator with organic vapour cartridge and full facepiece. (Filter type A)				
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.				
Hygiene measures	When using do not smoke. 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	with the require	ements of environmenta odifications to the proce	protection legislation. Fum	hecked to ensure they comply e scrubbers, filters or sary to reduce emissions to	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Aerosol.
Colour	Yellow.
Odour	Characteristic odor.
Odour threshold	Not available.
рН	Not applicable.
Melting point/freezing point	Not available.
Initial boiling point and boiling	145 °C (293 °F)
range	
Flash point	43.0 °C (109.4 °F) Closed cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	0.6 %
Explosive limit – upper (%)	7 %

Vapour pressureNot available.Vapour donsity0.44 g/cm3 20 °CSolubility (vatar)Insoluble in waterPartition coefficientNot available.(in-ottanol/watar)Not available.Partition coefficientNot available.(in-ottanol/watar)Not available.Decomposition temperature200 °C (392 °F)Decomposition temperatureNot available.ViscosityNot available.ViscosityNot available.ViscosityNot available.Solubility of propertiesNot available.ViscosityNot available.ViscosityNot available.ViscosityNot available.ViscosityNot available.Statistip propertiesNot available.Statistip propertiesNot available.ViscosityThe product is stable and non-seactive under normal conditions of use, storage and transport.10.2. Chemical stabilityMaterial is stable under normal conditions of normal use.10.3. Conditions to avoidAvoid high temporatures.10.4. Conditions to avoidStoring oxiditing agents.10.5. Incompatible materiasStoring oxiditing agents.10.6. AsardousCurbon oxides.Section 11: Toxicological-informationMay cause divanines or dizzines. Headache. Nausea, vomiting.11.1. InformationMay cause divanines or dizzines. Headache. Nausea, vomiting.11.1. InformationMay cause divanines or dizzines. Headache. Nausea, vomiting.11.1. InformationMay cause divanines or dizzines. Headache. Nausea, vomiting.			
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		way cause drowsiness or dizziness.	
		Based on available data, the classification criteria ar	e not met.

Aspiration hazard	Not likely, due to the form of the product.
Mixture versus substance	Not available.
information	

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
Hydrocarbons, C9-C11, n-alkane	s, isoalkanes	, cyclics, < 2% aromatics	
Acute			
Other	LC50	Pseudokirchnerella subcapitata	> 1000 mg/l, 72 h
Aquatic			
Acute			
Fish	LC50	Oncorhynchus mykiss	> 1000 mg/l
12.2. Persistence and degradability	No data is	available on the degradability of any ingre	edients in the mixture.
12.3. Bioaccumulative potentia	I		
Partition coefficient n-octanol/water (log Kow)	Not availa	ble.	
Bioconcentration factor (BCF)	Not availa	ble.	
12.4. Mobility in soil	No data a	vailable.	
12.5. Results of PBT and vPvB assessment		re does not contain substances assessed 907/2006, Annex XIII.	to be vPvB / PBT according to Regulation
12.6. Other adverse effects		adverse environmental effects (e.g. ozone endocrine disruption, global warming poter	

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
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	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number 14.2. UN proper shipping name	UN1950 AEROSOLS, flammable
14.3. Transport hazard class	(es)
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Hazard No. (ADR)	Not assigned.
Tunnel restriction code	D
ADR/RID - Classification code:	5F
14.4. Packing group	Not assigned.
14.5. Environmental hazards	No
14.6. Special precautions	Not assigned.
for user	
RID	
14.1. UN number	UN1950

14.2. UN proper shipping AEROSOLS, flammable name 14.3. Transport hazard class(es) 2.1 Class Subsidiary risk 2.1 Label(s) Not assigned. 14.4. Packing group 14.5. Environmental hazards No 14.6. Special precautions Not assigned. for user ADN UN1950 14.1. UN number AEROSOLS, flammable 14.2. UN proper shipping name 14.3. Transport hazard class(es) Class 2.1 Subsidiary risk 2.1 Label(s) Not assigned. 14.4. Packing group 14.5. Environmental hazards No 14.6. Special precautions Not assigned. for user ΙΑΤΑ UN1950 14.1. UN number 14.2. UN proper shipping Aerosols, flammable name 14.3. Transport hazard class(es) Class 2.1 Subsidiary risk 14.4. Packing group Not assigned. 14.5. Environmental hazards No 10L **ERG Code** Not assigned. 14.6. Special precautions for user Other information Allowed with restrictions. Passenger and cargo aircraft Allowed with restrictions. Cargo aircraft only IMDG 14.1. UN number UN1950 Aerosols, flammable 14.2. UN proper shipping name 14.3. Transport hazard class(es) Class 2.1 Subsidiary risk 14.4. Packing group Not assigned. 14.5. Environmental hazards Marine pollutant No F-D, S-U EmS 14.6. Special precautions Not assigned. for user Not established. 14.7. Transport in bulk 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

Retained direct EU regulations

- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.
- Regulation (EU) 2019/1021 On persistent organic pollutants (recast), 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 authorization, 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 Not listed.

Other EU regulations

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

Not listed.

Other regulations

- Not available.
- 15.2. Chemical safety
- assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.
ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).
CAS: Chemical Abstract Service.
Ceiling: Short Term Exposure Limit Ceiling value.
CEN: European Committee for Standardization.
CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.
GWP: Global Warming Potential.
IATA: International Air Transport Association.
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.
IMDG: International Maritime Dangerous Goods.
MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG).

	 MARPOL: International Convention for the Prevention of Pollution from Ships. PBT: Persistent, bioaccumulative and toxic. REACH: Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 concerning Registration, Evaluation Authorization and Restriction of Chemicals). RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer). RID: Regulations concerning the International Carriage of Dangerous Goods by Rail. STEL: Short term exposure limit. TLV: Threshold Limit Value. TWA: Time Weighted Average. VOC: Volatile organic compounds. vPvB: Very persistent and very bioaccumulative. STEL: Short-term Exposure Limit.
References	Not available.
Information on evaluation method leading to the classification of mixture	Not available.
Full text of any statements, which are not written out in full	
under sections 2 to 15	H226 Flammable liquid and vapour.
	H304 May be fatal if swallowed and enters airways. H336 May cause drowsiness or dizziness.
Revision information	None.
	Not available.
Training information Disclaimer	CRC Industries Europe UK Limited cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. Apart from any fair dealing for purposes of study, research and review of health, safety and environmental risks, no part of these documents may be reproduced by any process without written permission from CRC. The products are governed by Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP); Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (in each case, as amended and replaced) and other applicable laws. It is an importers or downstream users responsibility to ensure compliance of product they import. An SDS provided in the official language(s) of a country is not a guarantee of compliance in that country.