New Tech Lubes Limited

SAFETY DATA SHEET
According to EC Regulations 1907/2006 & 1272/2008
NTL SDS 107-1.3
November 2024

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IPA

SECTION 1. IDENTIFICATION OF THE PREPARATION AND THE COMPANY / UNDERTAKING

1.1 Product name: IPA
1.2 Identified use(s): Lubricant
Use(s) advised against: None known
1.3 Details of supplier of SDS: New Tech Lubes Ltd, Unit 2-4 Harrison Drive Ind Est, Worksop Notts S81 9RL
E Mail (competent person): info@newtechlubes.com
1.4 Emergency telephone: +44 (0)1909730900 (08.00 -16.00 GMT Monday to Friday)

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance/mixture:

Regulation S.I. 2019/720 (GB CLP)			
Hazard Class	Hazard Category	Target Organs	Hazard Statements
Flammable liquids	Category 2	---	H225
Eye irritation	Category 2	---	H319
Specific target organ toxicity – single exposure	Category 2	---	H336

For the full text of the H-Statements mentioned in this Section, see Section 16.
Most important adverse effects:
Human health: See section 11 for toxicological information.
Physical and chemical hazards: See section 9 for physicochemical information.
Potential environmental effects: See section 12 for environmental information.

2.2 Label elements:
Labelling according to Regulation (EC) No 1272/2008:
Hazard symbols:

Signal word(s): Danger
Hazard statements: H225: Highly flammable liquid and vapour.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.
Precautionary statements: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting equipment.
P242: Use non-sparking tools.
P243: Take precautionary measures against static discharge.
P261: Avoid breathing vapour/spray.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE/doctor.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312: Call a POISON CENTRE/doctor if you feel unwell.
P331: Do NOT induce vomiting.
P337+P313: If eye irritation persists: get medical advice/attention.
P370+P378: In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish.
P403+P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.
P501: Dispose of contents/container in accordance with the local regulations.

2.3 Other hazards: The mixture does not contain any vPvB or PBT substances.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances:

Name	Identifiers	%	Classification
Propan-2-ol	CAS No: 108-21-4 Index No: 607-024-00-6 EC No: 203-561-1 REACH No: 01-2119537214-46-XXXX	>=70 - <=100	Flam. Liq. 2: H225 Eye Irrit. 2: H319 STOT SE3: H336

For the full text of the H- statements mentioned in this section, see section 16.

3.2 Mixtures: N/A

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures:
General advice: Take off all contaminated clothing immediately. Wash contaminated clothing before re-use.
Inhalation: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position. Call a physician immediately. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance.
Skin contact: Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician.
Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.
Ingestion: Rinse mouth with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately. If a person vomits when lying on his back, place him in the recovery position.

4.2 Most important symptoms and effects, both acute and delayed: See section 11.

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

SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media:
Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray, alcohol resistant foam, dry chemicals or carbon dioxide.
Unsuitable extinguishing media: High volume water jet.

5.2 Special hazards arising from the substance or mixture: The vapour may be invisible, heavier than air and spread along ground. Vapours may form explosive mixtures with air. Flash back possible over considerable distance. Heating or fire can release toxic gas. Highly flammable liquid and vapour. Hazardous combustion products: Carbon monoxide, Carbon dioxide (CO2), smoke.

5.3 Advice for firefighters: In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment. Cool closed containers exposed to fire with water spray. Heating will cause a pressure rise - with risk of bursting. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Keep away unprotected persons. Provide adequate ventilation. Keep away from heat and sources of ignition. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist.

6.2 Environmental precautions: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and clearing up: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see section 13). Stop the leakage if it can be done without danger. Absorb the liquid-binding material (sand, diatomite, universal binders). Treat recovered material as described in the section “Disposal considerations”.

6.4 Reference to other sections: For PPE and disposal see sections 8 and 13 respectively.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling: Keep container tightly closed. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity. Remove all sources of ignition. Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities: Store in original container. Keep in an area equipped with solvent resistant flooring. Combustible liquid. Keep away from sources of ignition - No smoking. The vapour may be invisible, heavier than air and spread along ground. Vapours may form explosive mixtures with air. Take measures to prevent the build-up of electrostatic charge. Use only in an area containing explosion proof equipment. Ensure all equipment is electrically grounded before beginning transfer operations. Keep tightly closed in a dry and cool place. Keep in a well-ventilated place. Keep away from heat. Storage containers should be earthed and bonded to prevent accumulation of static charge. Keep away from food, drink and animal feeding stuffs. Incompatible with oxidizing agents. Do not store together with oxidizing and self-igniting products. Suitable packaging materials: Stainless steel, Carbon steel, Polyester, Teflon, Polyethylene

7.3 Specific end use(s): The identified uses for this product are detailed in section 1.2.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Component:	Isopropyl acetate	CAS-No. 108-21-4
Derived No Effect Level (DNEL) / Derived Minimal Effect Level (DMEL)		
DNEL Workers, Long-term - systemic effects, Skin contact:	888 mg/kg bw/day	
DNEL Workers, Long-term - systemic effects, Inhalation:	500 mg/m3	
DNEL Consumers, Long-term - systemic effects, Skin contact:	319 mg/kg bw/day	
DNEL Consumers, Long-term - systemic effects, Inhalation:	89 mg/m3	
DNEL Consumers, Long-term - systemic effects, Ingestion:	26 mg/kg bw/day	
Predicted No Effect Concentration (PNEC)		
Fresh water:	140.9 mg/l	
Marine water:	140.9 mg/l	
Intermittent releases:	140.9 mg/l	
Sewage treatment plant (STP):	2251 mg/l	
Sediment:	552 mg/kg d.w.	
Soil:	28 mg/kg	
Secondary poisoning:	160 mg/kg food	
Other Occupational Exposure Limit Values		

UK. EH40 Workplace Exposure Limits (WELs), as amended, Time Weighted Average (TWA): 400 ppm, 999 mg/m3
UK. EH40 Workplace Exposure Limits (WELs), as amended, Short Term Exposure Limit (STEL): 500 ppm, 1250 mg/m³, (15 minutes)
ELV (IE), Skin designation: Can be absorbed through the skin.
ELV (IE), Time Weighted Average (TWA): 200 ppm

8.2 Exposure controls:

Appropriate engineering controls: Refer to protective measures listed in sections 7 and 8. Provide sufficient air exchange and/or exhaust in work rooms. Take measures to prevent the build-up of electrostatic charge.
Personal protective equipment:
Respiratory protection: If ventilation is insufficient, suitable respiratory protection must be provided Required, if exposure limit is exceeded (e.g. OEL). In the case of vapour formation use a respirator with an approved filter. Recommended filter type: A
Hand protection: The glove material has to be impermeable and resistant to the product / the substance / the preparation. As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use. Protective gloves should be replaced at first signs of wear. Protective gloves complying with EN 374. Material: Nitrile rubber. Break through time: 480 min. Glove thickness: 0.38 mm.
Eye protection: Tightly fitting safety goggles. Ensure that eyewash stations and safety showers are close to the workstation location. Equipment should conform to EN 166.
Skin and body protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear appropriate chemical resistant clothing and boots. Solvent resistant protective clothing.
Environmental exposure controls: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Liquid
Colour: Colourless
Odour: Odour of alcohol
Odour threshold: No data available
pH: No data available
Freezing point: No data available
Initial boiling point and boiling range: 82°C (ASTM D1078)
Flash point: 12°C (Method: ASTM D 56)
Evaporation rate: 4 (Butyl Acetate = 1)
Flammability (solid, gas): Not applicable
Flammability Limit – upper: 13% (V)
Flammability Limit – lower: 2% (V)
Vapour pressure: 4 kPa (20°C)
Relative vapour density: No data available
Density: 0.79 (15°C)
Water solubility: Completely miscible
Partition coefficient: n-octanol/water: No data available
Auto Ignition temperature: 399°C (ASTM E 659)
Thermal decomposition: No data available
Viscosity, kinematic: 1.8 mm2/s (40°C)
3.1 mm2/s (20°C)
Explosive properties: EU legislation: Not explosive
Explosivity: Formation of explosive air/vapour mixtures is possible
Oxidizing properties: Not classified as oxidising

9.2 Other information: Molecular weight: 60 g/mol.
Bulk density: 790 kg/m³

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity: No dangerous reactions known under normal conditions of use.

10.2 Chemical stability: Under normal storage conditions peroxides may accumulate and explode when subjected to heat or shock. Distillation or evaporation increases peroxide formation and increases the explosion hazard.

10.3 Possibility of hazardous reactions: No dangerous reactions known.

10.4 Conditions to avoid: Keep away from heat and sources of ignition. Heat, flames and sparks.

10.5 Incompatible materials: Avoid contact with aldehydes, alkanolamines, amines, caustics agents, chlorinated hydrocarbons and strong oxidizing agents

10.6 Hazardous decomposition products: Carbon oxides, smoke, material does not decompose at ambient temperatures.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Data for the product:

Component:	propan-2-ol	CAS-No. 67-63-0
	Acute toxicity	
	Oral	
LD50:	5840 mg/kg (Rat) (OECD Test Guideline 401)	
	Inhalation	
LC50:	>25 mg/l (Rat; 6h; vapour) (OECD Test Guideline 403)	
	Dermal	
LD50:	13900 mg/kg (Rabbit) (OECD Test Guideline 402)	
	Irritation	
	Skin	
Result:	No skin irritation (Rabbit) (OECD Test Guideline 404). Degreases the skin which may cause dry and rough. Prolonged or repeated skin contact may result in dermatitis.	
	Eyes	
Result:	Eye irritation (OECD Test Guideline 405). Splashes in eyes may cause strong pain. Vapour acts irritant.	
	Sensitisation	
Result:	not sensitizing (Buehler Test; Dermal; Guinea pig) (OECD Test Guideline 406)	
	CMR Effects	
	CMR Properties	
Carcinogenicity:	Based on available data, the classification criteria are not met.	
Mutagenicity:	In vitro tests did not show mutagenic effects. In vivo tests did not show mutagenic effects.	
Teratogenicity:	No effects on or via lactation.	
Reproductive toxicity:	Based on available data, the classification criteria are not met.	
	Specific Target Organ Toxicity	
	Single exposure	
Inhalation:	Target Organs: Central nervous system. May cause drowsiness or dizziness.	
	Repeated exposure	
Remark:	Oral and inhalation repeated exposure studies demonstrated target organ effects in male rats (kidney) and male and female mice (thyroid) by mechanisms of action that are not relevant to humans.	
	Other toxic properties	
	Aspiration hazard	
Remark:	Aspiration hazard if swallowed - can enter lungs and cause damage. Aspiration may cause pulmonary oedema and pneumonitis. Based on available data, the classification criteria are not met.	

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity:

Data for the product:

	Acute toxicity	
	Short-term (acute) aquatic hazard	
Result:	Not expected to be harmful to aquatic organisms.	
Component:	propan-2-ol	CAS-No. 108-21-4
	Acute Toxicity	
	Fish	
LC50:	9640 mg/l (Pimephales promelas; 96h) (flow-through test; OECD Test Guideline 203)	
	Toxicity to daphnia and other aquatic invertebrates	

LC50:	9714 mg/l (Daphnia magna; 24h) (static test; OECD Test Guideline 202)
	Algae
EC50:	>100 mg/l (Scenedesmus subspicatus; 72 h)
LOEC:	1000 mg/l (algae; 8d)
	Bacteria
EC50:	> 100 mg/l (Bacteria) no harming action.

12.2 Persistence and degradability:
Persistence: Transformation due to hydrolysis not expected to be significant.
Transformation due to photolysis not expected to be significant.
Biodegradability: 53 % (aerobic; domestic sewage; Related to: O2 consumption; Exposure Time: 5d) (Directive 67/548/EEC, Annex V, C.5) Readily biodegradable.

12.3 Bio-accumulative potential: Log Kow 0.05 Bio-accumulation is not expected.

12.4 Mobility in soil: Highly mobile in soils. The product is water soluble.
Distribution among environmental compartments: Soil: Koc: ca. 1.1

12.5 Results of PBT and vPvB assessment: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods: Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services. Dispose of contaminated packaging in the same way as the product. In accordance with local and national regulations. Do not burn, or use a cutting torch on, the empty drum. Risk of explosion. No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

SECTION 14. TRANSPORT INFORMATION

14.1 UN number: 1219

14.2 UN proper shipping name: ADR/RID/IMDG: Isopropyl Alcohol Solution

14.3. Transport hazard class(es):
ADR-Class: 3
(Labels; Classification Code; Hazard identification No; Tunnel restriction code): 3; F1; 33; (D/E)
RID-Class: 3
(Labels; Classification Code; Hazard identification No): 3; F1; 33
IMDG-Class: 3
(Labels; EmS): 3; F-E, S-D

14.4 Packing group: ADR/RID/IMDG Packing group: II

14.5. Environmental hazards: Not applicable

14.6. Special precautions for user: Not applicable.

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:
Other regulations: Occupational restrictions: Take note of Dir 92/85/EEC on the safety and health of pregnant workers at work and of Dir 94/33/EC on the protection of young people at work.
EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC): Point Nos.:; , 3; Listed. Point Nos.: , 40; Listed.
EU. Regulation No 1451/2007 [Biocides], Annex I, OJ (L 325): EC Number: , 200-661-7; Listed
Germany. Ordinance on Facilities Handling Substances that are Hazardous to Water, ((AwSV of 21 April 2017), UBA, BAnz AT), as amended: WGK 1: slightly hazardous to water: 135

Notification status propan-2-ol		
Regulatory list	Notification	Notification number
INSQ	YES	
ONT INV	YES	
PHARM (JP)	YES	
PICCS (PH)	YES	

TCSI	YES	
TH INV	YES	2905.12
TH INV	YES	55-1-05311
TSCA	YES	
VN INVL	YES	

15.2 Chemical safety assessment: No data available.

SECTION 16. OTHER INFORMATION

Classification methods used to derive classification of mixture: Classification according to calculation procedure detailed in EC1272/2008

Hazard statements in full:
H225: Highly flammable liquid and vapour.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.

Legend:
BCF: bioconcentration factor
BOD: biochemical oxygen demand
CAS: Chemical Abstracts Service
CLP: Classification, Labelling and Packaging
CMR: carcinogenic, mutagenic or toxic to reproduction
COD: chemical oxygen demand
DNEL: derived no-effect level
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
LC50: median lethal concentration
LOAEC: lowest observed adverse effect concentration
LOAEL: lowest observed adverse effect level
LOEL: lowest observed effect level
NLP: no-longer polymer
NOAEC: no observed adverse effect concentration
NOAEL: no observed adverse effect level
NOEC: no observed effect concentration
NOEL: no observed effect level
OECD: Organisation for Economic Cooperation and Development
OEL: occupational exposure limit
PBT: persistent, bio-accumulative and toxic
REACH Auth. No.: REACH Authorisation Number
REACH AuthAppC. No.: REACH Authorisation Application Consultation Number
PNEC: predicted no-effect concentration
STOT: specific target organ toxicity
SVHC: substance of very high concern
UVCB: substance of unknown or variable composition, complex reaction products or biological materials
vPvB: very persistent and very bio-accumulative

Additional information: This safety data sheet has been produced based on information supplied by the manufacturers of the materials therein and is believed to be accurate. No warranty is expressed or implied by this information. It is for the user to satisfy themselves of the suitability of the product for their own purposes.