



SAFETY DATA SHEET

Reflection

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: Reflection

Product code:

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

Use of substance/ mixture: Furniture polish

1.3. Details of the supplier of the safety data sheet

Company name: LCR Chem Ltd

Units 5-6 Drumshanbo Business Park,

Drumshanbo,

Co. Leitrim

Tel: 071 9640798

Fax: 071 9640798

Email: samlcr@eircom.net

1.4. Emergency telephone number

Emergency tel: +353 (0) 71 9640798 GMT 8:00-16:00

Section 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 2) H225

Acute toxicity (Category 4) H332

Eye irritation (Category 2) H319

STOT-SE (Category 3)

H335/H336

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

F	Highly flammable	R11
Xn	Harmful	R 20
Xi	Irritant	R36/37
		R67

For the full text of the R-phrases mentioned in this Section, see Section 16.

2.2. Label elements

Labeling according Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms:



Signal word: Danger

Hazard statement(s)

H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H319	Causes serious eye irritation.
H332	Harmful if inhaled
H335	may cause respiratory irritation
H336	May cause drowsiness or dizziness

Supplementary Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P243	Take precautionary measures against static discharge.
P403/233	Store in a well-ventilated place; Keep container tightly closed
P501a	Dispose of contents/container to a registered waste disposal company

Supplementary Precautionary statement(s)

P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/.../equipment.
P242	Use only non-sparking tools.

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash ... 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.
P305/351/338	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 CENTER or doctor/physician if you feel unwell.
P313	Get medical advice/attention.
P337	If eye irritation persists:
P370/378	In case of fire: Use ... for extinction.
P403/235	Store in a well-ventilated place; Keep cool.
P405	Store locked up.

According to European Directive 67/548/EEC as amended.

Hazard symbol(s)



Risk phrases:

R 11	Flammable
R 20	Harmful by inhalation
R36/37	Irritating to eyes & respiratory system
R67	Vapours may cause drowsiness and dizziness

Safety phrases:

S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28	After contact with skin, wash immediately with plenty of water.
S36/37/39	Wear suitable protective clothing, gloves and eye / face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

2.3. Other hazards

PBT: none

Section 3: composition/information on ingredients

Hazardous ingredients	Conc.	CAS No.	EINECS NO.	Symbols/Risk phrases
Ammonium Acryloyldimethyltaurate/VP Copolymer	0.5%	335383-60-3		F: R11, Xn: R20, Xi:R36/37
Isopropanol	3%	67-63-0	200-661-7	Xi; R36. F; R11. R67.

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

Section 4: First aid measures

4.1. Description of first aid measures

Eye Contact:	Flush eyes with gently flowing water for at least 15 minutes or until the chemical is removed, while holding the eyelid(s) open. Take care not to rinse the contaminated water into the unaffected eye or face. Seek immediate medical attention.
Skin Contact:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion:	Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.
Notes to Physician:	Treatment based on sound judgment of physician and individual reactions of patient.

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

Skin contact:	Causes severe skin irritation
Eye contact:	Severe irritation, redness, tearing, blurred vision.
Ingestion:	If large amounts of the product are ingested, symptoms may include gastrointestinal irritation, nausea, vomiting and diarrhoea.
Inhalation:	Inhalation of vapours or mists of the product may be irritating to the respiratory system.

4.3. Indication of any immediate medical attention and special treatment

Immediate/ special treatment:

Section 5: fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Use as appropriate: water spray jet, foam

Extinguishing media that must not be used for safety reasons

Dry powder, carbon dioxide, strong water jet

5.2. Special hazard arising from the substance or mixture

Exposure hazards: Burning produces irritating, toxic and obnoxious fumes. Nitrogen oxides (NO_x), Sulphur dioxide (SO₂), Ammonia (NH₃)

5.3. Advice for fire fighters

Advice for fire fighters: Wear suitable respiratory equipment when necessary.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid dust formation. Keep away sources of ignition. Wear suitable personal protective equipment as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3. Methods and materials for containment and cleaning up

Clean-up procedure: Stop leak if possible without risk. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Wear necessary protective equipment. Absorb in vermiculite, dry sand or earth and place into containers.

6.4. Reference to other sections

Reference to other sections: section 13 no other specific uses are stipulated

Section 7: Handling and storage

7.1. Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Avoid the formation and deposition of dust. Take precautionary measures against electrostatic loading. Eliminate all sources of ignition. Keep away from heat, sparks and open flame.

7.2. Conditions for safe storage, including any incompatibles

Storage conditions: Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Do not store with alkalis.

7.3. Specific end use(s):

Specific end use(s): A part from the uses mentioned in section 1.2 no other specific uses are stipulated

Section 8: Exposure control/ Personal protection

8.1. Control parameters

Workplace exposure limits:

Component	CAS-N0.	Value	Control parameters	Basis
Ammonium Acryloyldimethyltaurate/VP Copolymer	335383-60-3	WEL_TWA	4 mg/m ³	Ireland. List of Chemical Agents and Occupational Exposure Limit Values - Schedule 1

Component	CAS-N0.	Value	Control parameters	Basis
2-Propanol	67-63-0	OELV - 8 hrs (TWA)	200 ppm	Ireland. List of Chemical Agents and Occupational Exposure Limit Values - Schedule 1
		Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body		
		OELV - 15 min (STEL)	400 ppm	Ireland. List of Chemical Agents and Occupational Exposure Limit Values - Schedule 1
		Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body		

8.2. Exposure controls

Engineering measures: Ensure adequate ventilation of the working area.

Respiratory protection: Wear: Self-contained breathing apparatus

Hand protection: Chemical resistant gloves (PVC)

Eye protection: Wear chemical protective clothing

Section 9: Physical and chemical properties

State: Cream

Colour: white-cream

Odour: fragranced

Evaporation rate: -

Solubility in water:

Viscosity: viscous

Boiling point/range °C: -

VOC g/l: -

Relative density: -

Melting point/ range °C: -

pH: 7-7.5

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: See section 10.3. "Possibility of hazardous reactions"

10.2. Chemical stability

Chemical stability: Stable under normal conditions

10.3. Possibility of hazardous reactions:

Hazardous reactions: Evolution of ammonia under influence of alkalis

10.4. Conditions to avoid

Excessive heat, flames and sparks. Extremes of temperature and direct sunlight

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, Acid anhydrides, Aluminium, Halogenated compounds, Acids

10.6. Hazardous decomposition products

Haz. Decomp. Products: When handled and stored appropriately, no dangerous decomposition products are known In the event of fire: see section 5

Section 11: Toxicological information

11.1. Information on Toxicological effect

Toxicity values:

Substance	Species	Test	Value	Units
Ammonium Acryloyldimethyltaurate/VP Copolymer	rat	Oral LD ₅₀	>2000	mg/kg
Isopropanol*	mouse	Oral LD ₅₀	3600	mg/kg
Isopropanol	Rabbit	DermalLD ₅₀	6410	mg/kg
Isopropanol	Rat	InhalationLD ₅₀	16000	ppm

*: Remarks: Behavioral: Altered sleep time (including change in righting reflex). Behavioral: Somnolence (general depressed activity).

Relevant potential effects for constituent components on skin and eyes

Substance	Effect	Route	Basis
Isopropanol	Mild skin irritation	Skin	Hazardous: Calculated Rabbit 24 h
Isopropanol	Eye irritation	Eye	Hazardous: Calculated Rabbit 24 h

Symptoms/ routes of exposure

Primary Routes of Entry: Eye contact, skin contact/absorption, and inhalation.

Skin contact: Overexposure may cause mild skin irritation. Prolonged or repeated exposure may dry the skin. Symptoms may include redness, burning, drying and cracking. Skin absorption is possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use.

Eye contact: Severe irritation, redness, tearing, blurred vision.

Ingestion: Single dose oral toxicity is low. Swallowing large amounts may be harmful

Inhalation: Inhalation of vapours or mists of the product may be irritating to the respiratory system

Signs and Symptoms of Overexposure:

Irritation to the eyes, skin, nose, throat, or respiratory tract

Section 12: Ecological information

12.1. Toxicity

Eco-toxicity values:

Substance	Species	Test	Value	Units
Ammonium Acryloyldimethyltaurate/VP Copolymer	<i>Danio rerio</i> (zebra fish)	96H LC ₅₀	>1000	mg/L
	Activated sludge	EC ₅₀	>3200	mg/L
Isopropanol	<i>Pimephales promelas</i> (fathead minnow)	96H LC ₅₀	9640	mg/L
	<i>Daphnia magna</i> (water flea)	48H LC ₅₀	6851	mg/L
	<i>Desmodesmus subspicatus</i> (green algae)	72H LC ₅₀	>2000	mg/L
	<i>Desmodesmus subspicatus</i> (green algae)	24H LC ₅₀	>1000	mg/L

12.2. Persistence and degradability

Persistence and degradability No data available

12.3. Bio-accumulative potential

Bio-accumulative potential: No data available

12.4. Mobility in soil

Mobility: No data available

12.5. Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: no data available

Section 13: Disposal considerations

Disposal of packaging: Dispose of in compliance with all local and national regulations

Section 14: Transport information

Transport class: This product does not require a classification for transport

Section 15: Regulatory Information

15.1. Safety, health and environment regulations/ legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2. Chemical Safety Assessment

Chemical Safety assessment: For this product a chemical safety assessment was not carried out

Section 16: Other information

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

Flammable liquids (Category 2)	H225	Highly flammable liquid and vapour
Acute toxicity (Category 4)	H302	Harmful if swallowed
Acute toxicity (Category 4)	H332	Harmful if inhaled
Eye irritation (Category 2)	H319	Causes serious eye irritation
STOT-SE (Category 3)	H335	may cause respiratory irritation
	H336	May cause drowsiness or dizziness

Full text of R-phrases referred to under sections 2 and 3

F	Highly flammable	R11	Flammable
Xn	Harmful	R 20	Harmful by inhalation
Xi	Irritant	R36/37	Irritating to eyes & respiratory system
		R67	Vapours may cause drowsiness and dizziness

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. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.