PROPIONALDEHYDE 97%

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Compilation date: 19/10/2018

Revision No: 1

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

1.1. Product identifier

Product name: PROPIONALDEHYDE 97%

CAS number: 123-38-6

EINECS number: 204-623-0

Product code: GPC6948

Synonyms: PROPANAL

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

Use of substance / mixture: PC21: Laboratory chemicals.

1.3. Details of the supplier of the safety data sheet

Company name:	Atom Scientific Ltd
	2b East Tame Business Park
	Hyde
	Manchester
	SK14 4GX
Tel:	0161 366 5123
Fax:	01704 337167
Email:	technical@atomscientific.com

1.4. Emergency telephone number

Emergency tel: 07833453806

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP:	Flam. Liq. 2: H225; Acute Tox. 4: H302+332; Skin Irrit. 2: H315; Eye Dam. 1: H318; STOT
	SE 3: H335
Classification under CHIP:	F: R11; Xi: R36/37/38
Most important adverse effects:	Highly flammable liquid and vapour. Harmful if swallowed or if inhaled. Causes skin
	irritation. Causes serious eye damage. May cause respiratory irritation.
2.2. Label elements	

Label elements under CLP:

Hazard statements: H225: Highly flammable liquid and vapour.

H302+332: Harmful if swallowed or if inhaled.

H315: Causes skin irritation.

- H318: Causes serious eye damage.
- H335: May cause respiratory irritation.

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 Signal words:
 Danger

 Hazard pictograms:
 GHS02: Flame

 GHS05: Corrosion
 GHS07: Exclamation mark

 Image: Im

3.1. Substances

Chemical identity: PROPIONALDEHYDE 97% CAS number: 123-38-6 EINECS number: 204-623-0 Contains: Molecular Formula : C3H6O Molecular weight : 58.08 g/mol

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact:Wash immediately with plenty of soap and water. Consult a doctor.Eye contact:Bathe the eye with running water for 15 minutes. Consult a doctor.Ingestion:Do not induce vomiting. Never give anything by mouth to an unconscious person. Wash
out mouth with water. Consult a doctor.Inhalation:Move to fresh air in case of accidental inhalation of vapours. If unconscious, check for

breathing and apply artificial respiration if necessary. Consult a doctor.

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

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and pain.

Ingestion: No data available.

Inhalation: No data available.

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Delayed / immediate effects: May cause respiratory irritation.

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

Immediate / special treatment: No data available.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Water spray. Alcohol resistant foam. Dry chemical powder. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Not applicable.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Eliminate all sources of ignition. Refer to section 8 of SDS for personal protection details. Evacuate the area immediately. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see

section 13).

6.4. Reference to other sections

Reference to other sections: Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up

of electrostatic charge.

For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature 2 - 8 °C

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Handle and open container with care. Handle and store under inert gas. Air and moisture sensitive.

moisture sensitiv

Suitable packaging: Not applicable.

7.3. Specific end use(s)

Specific end use(s): No special requirement.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

8.1. DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures:	Handle in accordance with good industrial hygiene and safety practice. Wash hands
	before breaks and at the end of workday.
Respiratory protection:	Self-contained breathing apparatus must be available in case of emergency.
Hand protection:	Splash contact
	Material: butyl-rubber
	Minimum layer thickness: 0.3 mm
	Break through time: 343 min
Eye protection:	Tightly fitting safety goggles. Face-shield.
Skin protection:	Complete suit protecting against chemicals. Flame retardant antistatic protective
	clothing. The type of protective equipment must be selected according to the
	concentration and amount of the dangerous substance at the specific workplace.
Environmental:	Prevent from entering in public sewers or the immediate environment. Do not let product
	enter drains.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties State: Liquid Colour: Colourless Boiling point/range°C: 46-50 Melting point/range°C: -81 Flammability limits %: lower: 2.6 Image: Circle of the structure Image: Circle of the structure Vapour pressure: 343 hPa Part.coeff. n-octanol/water: log Pow: 0.83 Vapour pressure: 343 hPa

9.2. Other information

Other information: No data available.

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Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: No data available.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: No data available.

10.4. Conditions to avoid

Conditions to avoid: Heat. Direct sunlight. Sources of ignition. Flames. Extremes of temperatures

10.5. Incompatible materials

Materials to avoid: Oxidising agents. Strong bases. Strong reducing agents.

10.6. Hazardous decomposition products

Haz. decomp. products: Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
ORAL	RAT	LD50	1,690	mg/kg
INHALATION	RAT	4H LC50	>4.6	mg/l
DERMAL	RBT	LD50	2,460	mg/kg

Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH ING	Based on test data
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data
STOT-single exposure	INH	Based on test data

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and pain.

Ingestion: No data available.

Inhalation: No data available.

Delayed / immediate effects: May cause respiratory irritation.

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Other information: Material is extremely destructive to tissue of the mucous membranes and upper

respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
FISH	96H LC50	14	mg/l

12.2. Persistence and degradability

Persistence and degradability: Readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Harmful to aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations:	Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra
	care in igniting as this material is highly flammable. Offer surplus and non-recyclable
	solutions to a licensed disposal company.
Recovery operations:	Not applicable.
Disposal of packaging:	Dispose of as unused product.
NB:	The user's attention is drawn to the possible existence of regional or national
	regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1275

14.2. UN proper shipping name

Shipping name: ADR/RID: PROPIONALDEHYDE

IMDG: PROPIONALDEHYDE

IATA: Propionaldehyde

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	Pa	age: 7		
14.3. Transport hazard class(e	s)			
Transport class:	3			
14.4. Packing group				
Packing group:	2			
14.5. Environmental hazards	-			
Environmentally hazardous:				
14.6. Special precautions for user				
Special precautions:	No special precautions.			
Section 15: Regulatory inform	ation			
15.1. Safety, health and enviro	nmental regulations/legislation specific for the substance or mixture			
Specific regulations:	This safety datasheet complies with the requirements of Regulation (EC) No.			
-p 3	1907/2006.			
15.2. Chemical Safety Assessn				
	A chemical safety assessment has not been carried out for the substance or the mixture			
Chemical safety assessment.	by the supplier.			
Section 16: Other information				
Other information				
Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No			
	453/2010.			
	* indicates text in the SDS which has changed since the last revision.			
Phrases used in s.2 and 3:	H225: Highly flammable liquid and vapour.			
	H302+332: Harmful if swallowed or if inhaled.			
	H315: Causes skin irritation.			
	H318: Causes serious eye damage.			
	H335: May cause respiratory irritation.			
	R11: Highly flammable.			
	R36/37/38: Irritating to eyes, respiratory system and skin.			
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.			