PENTANOL 99% (AMYL ALCOHOL)

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Compilation date: 02/01/2019

Revision No: 1

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

1.1. Product identifier

Product name: PENTANOL 99% (AMYL ALCOHOL)

CAS number: 71-41-0

EINECS number: 200-752-1

Product code: GPS8968

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. 3: H226; STOT SE 3: H335; Acute Tox. 4: H332; Skin Irrit. 2: H315; Eye Irrit. 2:
	H319
Most important adverse effects:	Flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation.
	Harmful if inhaled. May cause respiratory irritation.

2.2. Label elements

Label elements under CLP:

Hazard statements: H226: Flammable liquid and vapour.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

Signal words: Warning

Hazard pictograms: GHS02: Flame

GHS07: Exclamation mark

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3	3. Other hazards	
		P235: Keep cool.
		P403: Store in a well-ventilated place.
		P337+313: If eye irritation persists: Get medical advice/attention.
		P312: Call a POISON CENTER or doctor if you feel unwell.
		comfortable for breathing.
		P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position
		P280: Wear protective gloves/protective clothing/eye protection/face protection.
		P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.
	Precautionary statements:	P210: Keep away from heat/sparks/open flames/hot surfaces No smoking.

2.3

Other hazards: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: PENTANOL 99% (AMYL ALCOHOL) CAS number: 71-41-0 EINECS number: 200-752-1 Contains: Molecular Formula : C5H12O Molecular Weight : 88.15 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: Never give anything by mouth to an unconscious person. Do not induce vomiting. 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 redness.

Ingestion: No data available.

Inhalation: No data available.

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Delayed / immediate effects: No data available.

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. Evacuate the area immediately. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Refer to section 8 of SDS for personal protection details.

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.

Suitable packaging: Not applicable.

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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

0.1. DIVEL/I NEO 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:	Where risk assessment shows air-purifying respirators are appropriate use a full-face
	respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator
	cartridges as a backup to engineering controls. If the respirator is the sole means of
	protection, use a full-face supplied air respirator. Use respirators and components
	tested and approved under appropriate government standards such as NIOSH (US) or
	CEN (EU).
Hand protection:	Full contact
	Material: Nitrile rubber
	Minimum layer thickness: 0.4 mm
	Break through time: 480 min Splash contact
	Material: Nitrile rubber
	Minimum layer thickness: 0.2 mm
	Break through time: 65 min Use proper glove removal technique (without touching
	glove's outer surface) to avoid skin contact with this product. Dispose of contaminated
	gloves after use in accordance with applicable laws and good laboratory practices.
	Wash and dry hands.
Eye protection:	Face-shield. Safety glasses. Use equipment for eye protection tested and approved
	under appropriate government standards such as NIOSH (US) or EN 166(EU).
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:	Do not let product enter drains. Prevent from entering in public sewers or the immediate
	environment.
Section 9: Physical and chemi	cal properties
9.1. Information on basic physic	ical and chemical properties
or in information on basic physic	

State: Liquid

Colour: Colourless

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Odour:	Characteristic odour		
Boiling point/range°C:	136 - 138 °C - lit.	Melting point/range°C:	-78 °C - lit.
Flammability limits %: lower:	1.2	upper:	10
Flash point°C:	49 °C	Part.coeff. n-octanol/water:	log Pow: 1.51
Autoflammability°C:	300 °C	Vapour pressure:	2.0 hPa at 20 °C
Relative density:	0.811 g/cm3 at 25 °C	pH:	7

9.2. Other information

Other information: Not applicable.

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. Flames. Sources of ignition.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Alkali metals. Strong acids. Halides Aldehydes

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH	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 redness.

Ingestion: No data available.

Inhalation: No data available.

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Delayed / immediate effects: No data available.

Other information: Not applicable.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
FISH	96H LC50	530	mg/l
DAPHNIA	48H EC50	341.21	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: No data available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations:	sposal 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: UN1105

14.2. UN proper shipping name

Shipping name: PENTANOLS

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14.3. Transport hazard class(es	\$)
Transport class:	3
14.4. Packing group	
Packing group:	III
14.5. Environmental hazards	
Environmentally hazardous:	No Marine pollutant: No
14.6. Special precautions for us	ser
Special precautions:	No special precautions.
Tunnel code:	D/E
Transport category:	2
ection 15: Regulatory informa	ation
15.1. Safety, health and environ	nmental regulations/legislation specific for the substance or mixture
	This safety datasheet complies with the requirements of Regulation (EC) No.
Specific regulations.	1907/2006.
15.2. Chemical Safety Assessm	
Chemical safety assessment:	A chemical safety assessment has not been carried out for the substance or the mixture
	by the supplier.
ection 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:	H226: Flammable liquid and vapour.
	H315: Causes skin irritation.
	H319: Causes serious eye irritation.
	H332: Harmful if inhaled.
	H332: Harmful if inhaled. H335: May cause respiratory irritation.
Legal disclaimer:	
Legal disclaimer:	H335: May cause respiratory irritation.