



SAFETY DATA SHEET According to EC Regulations 1907/2006 & 1272/2008 NTL SDS 135-1.0 August 2016

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PEN TECH

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

- | | |
|---------------------------------|---------------------------------------------------------------------------|
| 1.1 Product Name: | Pen Tech |
| 1.2 Identified uses: | Industrial, automotive |
| Use's advised against | None known. |
| 1.3 Details of supplier of SDS: | New Tech Lubes Ltd, Unit 3 Harrison Drive Ind Est, Worksop Notts, S81 9RL |
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| 1.4 Emergency Telephone: | +44 (0)1909 730900 (09.00 -17.00 GMT Monday to Friday) |

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance /mixture:

2.1.1 Regulation EC 1272/2008:

Physical	Flamm liquid (cat 3) - H226
Health	EUH066, STOT-SE (cat 3) - H336, Asp Tox (cat 1) - H304
Environmental	Aquatic chronic (cat 2) - H411

2.2 Label elements:



Signal word(s): Danger

Hazard statements:

H226	Flammable liquid and vapour
H304:	May be fatal if swallowed and enters airways
H336:	May cause drowsiness or dizziness
EUOH66	Repeated exposure may cause skin dryness or cracking
H411	Toxic to aquatic life with long-lasting effects

Precautionary statements:

P 301 +310	IF SWALLOWED: Immediately call a POISON CENTRE or doctor
P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P233	Keep container tightly closed
P261	Avoid breathing fumes/ vapours
P280	Wear protective gloves/ protective clothing/ eye protection

Hazardous components which must be listed on label

Contains: Petroleum naphtha mixture

2.3 Other hazards

The mixture does not contain any vPvB or PBT substances.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Mixture:

HAZARDOUS INGREDIENTS	%W/W	CAS No EC No	REACH REG NO	HAZARD PICT/STATEMENTS
Hydrocarbons C9-C12, n-alkanes, isoalkanes, cyclic (aromatics <25%)	25-50	- 919-446-0	01-2119458049-33	Flam liq 3 H226 STOT-SE3 H336 (CNS) Asp Tox 1 H304 EUH066 Aqua Chron 2 H411
Mineral oil - paraffinic	15-30	Mixture	N/A mixture	Not classified under EC 1272/2008
N Butyl acetate	10-25	123-86-4 204-658-1	01-2119456620-43	Flam liq 3 H226 STOT-SE 3 H336
Hydrocarbons C11-C14, n-alkanes, isoalkanes, cyclic (aromatics <2%)	<10	- 926-141-6	01-2119456620-43	Asp Tox 1 H304 EUH066
Residual oils, petroleum, oxidised (component)	<5	64742-99-0 265-204-1	N/A mixture	Eye Irrit 2 H319
4-hydroxy-4-methylpentanone	<5	123-42-2 204-626-7		Flam liq 3 H226 Eye Irrit 2 H319 STOT-SE 3 H335

3.2 Additional information

See sect 16 for full text of H phrases.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures:

- Eyes: Remove contact lenses. Rinse with water immediately for at least 10 minutes. Obtain medical attention if any discomfort continues.
- Skin: Wash skin with soap and water. If grease has been injected under the skin, seek Medical advice immediately
- Inhalation: Move to fresh air. Provide rest and warmth. If effects occur, obtain medical attention.
- Ingestion: If swallowed, drink plenty of water. Do not induce vomiting. Obtain immediate medical attention.

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

Narcotic and other central nervous system effects.

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

If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media:

- Suitable extinguishing media: Powder, alcohol resistant foam. CO₂, dry chemicals.
- Unsuitable extinguishing media: Water stream

5.2 Special hazards arising from the substance or mixture

May produce oxides of Carbon and other combustion products. Contents will add to fuelling of fire.

5.3 Advice for fire fighters

Wear self-contained breathing apparatus. Keep containers cool by spraying with water. Ventilate closed spaces before entering.
Flammable – flash point >25⁰C

SECTION 6. ACCIDENTAL RELEASE MEASURES:

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing fumes/ vapours. Wear suitable protective equipment as in Sect 8.

6.2 Environmental precautions.

Prevent from entering drainage systems or water courses.

6.3 Methods and material for containment and clearing

If liquid escapes, ensure plenty of fresh air / ventilation. Absorb spilled contents on inert material such as sand or earth - collect and dispose of as in Sect 13. Scrub area with detergent and water.

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 away from all sources of ignition. Wear protective gloves/ eye protection. Do not use on hot surfaces. Wash hands after use and before eating. Do not breathe vapours / fumes.

7.2 Conditions for safe storage, including any incompatibilities

Store tightly closed, in a cool, dry, ventilated area. Prevent exposure to high temperatures.

7.3 Specific end use (s)

For general penetration/ release applications in general industrial and automotive use.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Workplace exposure limits:

Ingredients	LTEL 8 Hr	STEL 15 min	Note
Hydrocarbons C9-C12	350 mg/m ³	-	WEL
Hydrocarbons C11-C14	1000 mg/m ³	-	EH40
Oil mists	5 mg/m ³	-	NIOSH
N Butyl acetate	724 mg/m ³	966 mg/m ³	WEL
4-hydroxy-4-methylpentanone	50 ppm	75 ppm	WEL

Biological limit value: Not established

PNECs, DNELs: Not established

8.2 Exposure controls

8.2.1 Appropriate engineering controls: Ensure good ventilation /local exhaust ventilation to keep airborne contaminants below exposure limits.

8.2.2 Personal protective equipment:



Eye / face protection: Safety goggles/glasses if there is a risk of eye contact.

Skin protection: Nitrile gloves (EN 374). See glove manufacturer data for glove selection and breakthrough time for use conditions.

Respiratory protection: If engineering controls do not maintain safe level, then filter/respirator. Type A filter material..

8.2.3 Environmental exposure controls – See sections 6, 12, 13.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance/physical state:	Thin liquid
Colour:	Clear, colourless –pale straw
Odour:	Strong solvent
Odour threshold:	Not established
pH:	Not applicable
Melting /freezing point:	< 0°C
IBP /boiling range:	>100°C
Flash Point	≥24° C
Evaporation rate:	Not established
Upper /lower explosive limits:	Not established
Vapour pressure:	Not established
Vapour density:	Not established
Relative density:	0.8
Solubility:	Negligible water miscibility
Partition coefficient (n-octanol/water):	Not established
Auto-ignition temperature:	Not established
Decomposition temperature:	Not established
Viscosity:	Not applicable
Explosive properties:	Not established
Oxidising properties:	None

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reactions known under normal conditions of use.

10.2 Chemical Stability

Stable under proper storage and handling conditions.

10.3 Possibility of chemical reactions

No dangerous reactions known.

10.4 Conditions to avoid

Heat, flame and other ignition sources.

10.5 Incompatible materials

Avoid contact with strong oxidising agents

10.6 Hazardous decomposition products

None when used as directed.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.2. Mixtures

Acute toxicity	}	No data available
Irritation		
Corrosivity		
Sensitisation		
Repeated dose toxicity		
Carcinogenicity		
Mutagenicity		
Toxicity for reproduction		

Other information

May cause irritation and discomfort to eyes. Prolonged or repeated contact may cause irritation and dermatitis. High concentrations of vapours may cause drowsiness and dizziness

Ingestion may cause irritation to mouth and cause damage to respiratory system.

Hydrocarbons, C9-C12 (<25% aromatics)					
Toxicity / Effect	Endpoint	Value	Organism	Method	Notes
Acute Tox -Oral	LD50	>15000mg/kg	Rat	OECD 401	
Acute tox-Inhal	LC50	>13000mg/l 4 Hr	Rat		Irritating vapours, CNS effects
Acute Tox- Derm	LD50	>3400mg/kg	Rat		Minimally toxic
Skin corrosion / Irritation				OECD 404	Repeated exposure may cause skin dryness or cracking
Serious eye damage / Irritation				OECD 405	May irritate eyes
Sensitisation – Respiratory or Skin				OECD 406	No known effect.
Aspiration					May be fatal if swallowed and enters airways
CMR effects					Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.

Mineral oil - paraffinic	
Toxicity / Effect	Notes
Tox -Oral	Unlikely to cause harm if accidentally swallowed in small doses though ingestion of large quantities may cause gastrointestinal effects.
Tox-Inhal	Inhalation of vapour and mists especially at elevated temperature may cause respiratory irritation.
Skin contact	Material is not an irritant, but prolonged /repeated contact may result in irritation or dermatitis.
Serious eye damage / Irritation	Eye contact may cause severe irritation. Vapour is irritating to eyes.

N Butyl acetate					
Toxicity / Effect	Endpoint	Value	Organis	Method	Notes

			m		
Tox -Oral	LD50	10760mg/kg	Rat	OECD 423	
Toxi Inhal	LC50	23.4mg/l	Rat	OECD 403	4Hr dust/mist
Tox-Derm	LD50	>14100mg/kg	Rabbit	OECD 402	
Skin / Eye -Irritat			Rabbit	OECD 404/5	No irritation
Sensitisation				OECD 406	Not sensitising
CMR - Mut				Ames test	Negative

Hydrocarbons C11-C14 (<2% aromatics)

Toxicity / Effect	Endpoint	Value	Organism	Method	Notes
Tox -Oral	LD50	>5000mg/kg	Rat		
Tox-Inhal	LC50	>5mg/kg	Rat		8 Hrs
Tox-Inhal	LC50	>20mg/kg	Rat		4 Hrs
Skin contact	LD50	>5000mg/kg	Rabbit		
Serious eye damage / Irritation					Potential skin defatting, and dermatitis, skin irritation
Sensitisation					Did not cause sensitisation to lab animals
Aspiration Tox					May be fatal if swallowed and enters airways
Carcinogenicity					Not expected to be carcinogenic
Mutagenicity					Did not show mutagenic effects on germ cells
Teratogenicity					Is not considered teratogenic
Reproductive tox					Not expected to impair fertility.

4-hydroxy-4-methylpentanone

Toxicity / Effect	Endpoint	Value	Organism	Method	Notes
Tox -Oral	LD50	3000mg/kg	Rat	OECD 401	
Toxi Inhal	LC0	7.6mg/l	Rat	OECD 403	4Hr vapour
Tox-Derm	LD50	13630mg/kg	Rabbit	OECD 402	
Skin -Irritat			Rabbit		Mild irritation
Eye -Irritat			Rabbit		Irritating
Sensitisation				OECD 406	Not sensitising
Carcinogenicity		Tumours noticed after prolonged inhalation tox testing on rats. The observed tumours do not appear to be relevant for men. Info based on data from similar substances			
Mutagenicity		No effects shown on mammalian or bacterial cell cultures			
Teratogenicity		No effects on foetal development (animals) based on similar substances			
Reproductive tox		No effects on fertility (animals) based on similar substances			

SECTION 12 ECOLOGICAL INFORMATION:

Mixture

12.1 Toxicity

- Toxic to aquatic life with long-lasting effects

12.2 Persistence and degradability

12.3 Bioaccumulative potential

12.4 Mobility in soil

} No data available

12.4 results of PBT and vPvB assessment

12.6 Other adverse effects.

Hydrocarbons, C9-C12 (<25% aromatics)

12.1 Toxicity – Expected to be toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Test	Duration	Organism	Method	Result	Notes
Aquatic -acute	48 hrs	Daphnia magna	ECO	1000mg/l	
Aquatic -acute	72 hrs	Pseudokirchneriella subcapitata	IC 50	>1000mg/l	
Aquatic -acute	96 hrs	Oncorhynchus mykiss	LC50	1000mg/l	

12.2 Persistence and degradability – 69% (exposure time 28 days), Readily biodegradable

12.3 Bioaccumulative potential – No data available.

12.4 Mobility in soil – Surface tension 0.02mN/m @ 25⁰C

12.5 Results of PBT and vPvB assessment – Contains no PBT or vPvB components at levels of 0.01% or higher

12.6 Other adverse effects – Danger to drinking water if leakage into soil

Mineral oil - paraffinic

12.1 Toxicity – Not classified as dangerous for the environment, but is not readily biodegradable.

12.2 Persistence and degradability – Not readily biodegradable, little evaporation

12.3 Bioaccumulative potential – No data available.

12.4 Mobility in soil – Little mobility and can be absorbed from soil.

12.5 Results of PBT and vPvB assessment – No data available

12.6 Other adverse effects – None known

N Butyl acetate

12.1 Toxicity – Not classified as dangerous for the environment.

Test	Duration	Organism	Method	Result	Notes
Aquatic -acute	48 hrs	Daphnia magna	EC50	44mg/l	
Aquatic -acute	72 hrs	Green algae	EC 50	648mg/l	Growth inhibition
Aquatic -acute	96 hrs	Fathead minnow	LC50	18mg/l	
Aquatic -acute	40 hrs	Tetrahymena-bacteria	IC50	356mg/l	

12.2 Persistence and degradability – 69% (exposure time 28 days), Readily biodegradable

12.3 Bioaccumulative potential – No data available.

12.4 Mobility in soil – Surface tension 61.3 mN/m @ 20⁰C

12.5 Results of PBT and vPvB assessment – Contains no PBT or vPvB components at levels of 0.01% or higher

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

Hydrocarbons, C11-C14 (<2% aromatics)

12.1 Toxicity – Not classified as dangerous for the environment.

Test	Duration	Organism	Method	Result	Notes
Aquatic -acute	48 hrs	Daphnia magna	ECO	1000mg/l	
Aquatic -acute	72 hrs	Pseudokirchneriella subcapitata	IC 50	>1000mg/l	
Aquatic -acute	96 hrs	Oncorhynchus mykiss	LC50	1000mg/l	

12.2 Persistence and degradability – 69% (exposure time 28 days), Readily biodegradable

12.3 Bioaccumulative potential – Readily evaporates.

12.4 Mobility in soil – No data available

12.5 Results of PBT and vPvB assessment – Contains no PBT or vPvB components at levels of 0.01% or higher

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

4-hydroxy-4-methylpentanone

12.1 Toxicity – Not classified as dangerous for the environment.

Test	Duration	Organism	Method	Result	Notes
Aquatic -acute	48 hrs	Daphnia magna	EC50	1000mg/l	
Aquatic -acute	72 hrs	Pseudokirchneriella subcapitata	IC 50	>1000mg/l	
Aquatic -acute	96 hrs	Oryzias latipes	LC50	>100mg/l	
Aquatic-chronic	21 days	Daphnia magna	NOEC	100mg/l	

12.2 Persistence and degradability – 98.5% (exposure time 28 days), Readily biodegradable

12.3 Bioaccumulative potential – Readily evaporates. Does not bioaccumulate

12.4 Mobility in soil – Not expected to adsorb on soil.

12.5 Results of PBT and vPvB assessment – Contains no PBT or vPvB components at levels of 0.01% or higher

12.6 Other adverse effects – Do not flush into surface water or sanitary sewer system.

SECTION 13 DISPOSAL CONSIDERATIONS:

13.1 Waste Treatment Methods

Do not flush into surface water /watercourses or sewer system. Dispose of in accordance with local authority guidelines.

SECTION 14. TRANSPORT INFORMATION:

14.1 UN number	1993
14.2 UN proper shipping name	Flammable liquid NOS (contains Petroleum naphtha)
14.3 Transport hazard class	3.
ADR Classification code	F1
14.4 Packing group	III
14.5 Environmental hazards	Marine pollutant

SECTION 15. REGULATORY INFORMATION:

15.1 Safety, health and environmental regulations/legislation specific for the mixture

REACH:	1907/2006
CLP:	1272/2008
DPD:	199/45/EC
COSHH:	2002 (as amended)

15.2 Chemical safety assessment

A CSA has not been carried out for this mixture.

SECTION 16. OTHER INFORMATION:

Legend

LTEL	Long term exposure limit
STEL (SE)	Short term exposure limit (Single exposure)
STOT	Specific target organ toxicity
PNEC	Predicted no effect concentration
DNEL	Derived no effect level

Hazard statements –referred to in sect 3

H319	Causes serious eye irritation
H335	May cause respiratory irritation

Classification methods used to derive classification of mixture

Classification according to calculation procedure detailed in EC1272/2008

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.