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

1.1 . Product Identifier

Product Form : Mixture
Product Name : Tarsolve
Product Code : /
Type of Product : Cleaning Chemical
Product Group : Cleaning Product

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

1.2.1. Relevant identified Uses

Main use category : Professional Use
Industrial/Professional use spec : For professional use only

1.2.2. Use advised against

No additional information is available

1.3. Details of the supplier of the safety data sheet

PATSA Pakistan (Pvt.) Ltd.
Steel House, West Wharf Road,
Karachi, 74000, Pakistan
T: +92 0330 8694794
info@patsaonline.net www.patsaonline.net

1.4. Emergency telephone number

Country	Organization/Company	Address	Emergency Number	Comment
N/A	N/A	N/A	N/A	N/A

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]Mixture: SDS < 2015: Show CLP information only

Corrosive to metals, Category 1	H290
Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 1A	H314

Adverse physicochemical, human health and environmental effects
No additional information is available.

For full text of H-phrases see section 16.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP)

GHS05

GHS07

Single word (CLP) : Danger.
Hazard statements (CLP) : H290 - May be corrosive to metals.
H302 - Harmful if swallowed.
H314 - Causes severe skin burns and eye damage.
Precautionary Statements (CLP) : P234 - Keep only in original container.
P264 - Wash hands thoroughly after handling.
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

2.3. Other Hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixture

Name	Product Identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Potassium hydroxide	(CAS-No.) 1310-58-3 (EC-No.) 215-181-3 (REACH-no) 01-2119487136-33	5.0-15.0	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Dam. 1, H318
Caprylic acid	(CAS-No.) 124-07-2 (EC-No.) 204-677-5	<5.0	Skin Corr. 1B, H314 Aquatic Chronic 3, H412
2-phenoxyethanol	(CAS-No.) 122-99-6 (EC-No.) 204-589-7 (EC Index-No.) 603-098-00-9 (REACH-no) 01-2119488943-21	<5.0	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319

Full Text of H-statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation : Remove person to fresh air and keep comfortable. Seek medical advice.
First-aid measures after skin contact : Take of contaminated clothing. Rinse with water. Seek medical advice immediately,
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion : Rise mouth with water. Do NOT induce vomiting. Seel medical advice immediately.

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

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/injuries after inhalation : Unconsciousness. Dizziness. Headache. Nausea. Drowsiness.
Symptoms/injuries after skin contact : Pungent. Severe burns. Pain. Redness.
Symptoms/injuries after eye contact : Pungent. Pain. Redness. Blurred vision.
Symptoms/injuries after ingestion : Caustic, lack of breath, vomiting, blisters on lips and tongue, burning pain in mouth and throat, gullet and stomach.

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

No additional information is available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray, Powder, Foam, CO_2
Unsuitable extinishuing media : None.

5.2. Special hazards as rising from the substance or mixture

Fire hazard : None.
Explosion hazard : None.

5.3. Advice for firefighters

Reactivity : None.
Firefighting instructions : No specific firefighting instructions required.
Protection during firefighting : No specific measures are necessary.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not touch spilled material. Remove contaminated clothing and shoes. Do not breathe vapour. Do not breathe spray.

6.1.1. For non-emergency personnel

Protective equipment : No additional information available.
Emergency procedures : No additional information available.

6.1.2. For emergency responders

Protective equipment : No additional information available.
Emergency procedures : No additional information available.

6.2. Environmental precautions

Prevent entry to severs and public.

6.3. Methods and material for containment and cleaning up

For containment : Contain released substance, pump into suitable containers.
Methods for cleaning up : The material and its container must be disposed of in a safe way, and as per local legislation.
Other information : Absorb the product onto porous material.

6.4. Reference to other sections

See headings 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes. Handle and open the container with care. Keep away from sources of ignition- No smoking.
Hygiene measures : Wash thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.
Storage conditions : Keep container tightly closed and in well ventilated place. Keep out of frost.
Incompatible products : Strong acids.
Incompatible materials : None.
Storage area : Keep container tightly closed and in well-ventilated place. Keep out of frost. Handle carefully.
Special rules on packaging : Meet the legal requirements.

SECTION 8: Exposure controls/ personal protection

8.1. Control parameters

Tarsolve		
Belgium - Occupational Exposure Limits	OEL TWA	Here follows a summary list of the hazardous components mentioned in paragraph 3, of which the TLV value is known: 2 mg/m³ Potassium hydroxide

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information is available.

8.2.2 Personal protection equipment

Personal protective equipment:

Gloves. Safety glasses. Protective coating.

Personal protective equipment symbol(s):

8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Nitrile rubber gloves. Breakthrough time: > 480 Min, (EN 374). Layer thickness: 0,35 mm. Always wash your hands after handling the product

8.2.2.3. Respiratory protection

Respiratory protection:

Ensure adequate air ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Universal mask (ABEK)

8.2.2.4. Thermal hazards

No additional information is available.

8.2.3. Environmental exposure controls

No additional information is available.

SECTION 9: Physical and chemical properties

9.1. Information

Physical state : Liquid.
Colour : Colourless.
Odour : Characteristic.

Odour threshold	: No data available.
pH	: 13.6 @ 20°C
pH solution	: /.
Relative evaporation rate (butylacetate=1)	: 0.3
Melting point	: 0°C
Freezing point	: No data available.
Boiling point	: 100-245°C
Flashpoint	: /.
Auto-ignition temperature	: /.
Decomposition temperature	: /.
Flammability (solid, gas)	: Not applicable.
Vapour pressure	: 2332 Pa @ 20°C
Relative vapour density at 20 °C	: No data available.
Relative density	: No data available.
Density	: 1.197 kg/l @ 20°C
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available.
Viscosity, kinematic	: 1 mm²/s @ 20°C.
Viscosity, dynamic	: 1 mPa·s @ 20°C.
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.
Lower explosive limit (LEL)	: /.
Upper explosive limit (UEL)	: /.

9.1. Information

Voce content : 111.8 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at ambient temperature and under normal conditions of use.

10.2. Chemical stability

Extremely high or low temperatures.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Protect from sunlight. Do not expose to temperatures exceeding 50 ℃.

10.5. Incompatible materials

Keep away from (strong) acids

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxilogical effect

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Additional information	: See Heading 3 (information on ingredients)

Potassium Hydroxide (CAS No.) 1310-58-3	
LD50 oral rat	356 mg/kg
LD50 dermal rabbit	≥5000 mg/kg
LC50 inhalation rat (mgl/l)	≥50 mg/l/4h

Caprylic acid (CAS No.) 124-07-2	
LD50 oral rat	≥5000 mg/kg
LD50 dermal rabbit	≥5000 mg/kg
LC50 inhalation rat (mgl/l)	≥50 mg/l/4h

2-phenoxyethanol (CAS No.) 122-99-6	
LD50 oral rat	500 mg/kg
LD50 dermal rabbit	≥5000 mg/kg
LC50 inhalation rat (mgl/l)	≥50 mg/l/4h

Skin corrosion/irritation	: Causes severe skin burns pH: 13.6 @ 20°C
Serious eye damage/irritation	: Assumed to cause serious eye damage pH: 13.6 @ 20°C
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology – general : No data available.
Acute aquatic toxicity : Not classified.
Chronic aquatic toxicity : Not classified.

2-phenoxyethanol (CAS No.) 122-99-6	
LC50 fish 1	>100 mg/l
EC50 72h algae 1	>500 mg/l
NOEC chronic fish	23 mg/l 34 d, Pimephales promelas

12.2. Persistence and degradability

Tarsolve	
Persistence and degradibility	This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential

2-phenoxyethanol (CAS No.) 122-99-6	
Partition coefficient n-octanol/water (Log Pow)	1.16 BCF : 0,35

12.4. Mobility in soil

Tarsolve	
Mobility in soil	No supplementary information available.
Ecology - soil	WGK 1. Completely soluble in water.

12.5. Results pf PBT and vPvB assessment

No additional information avaialble.

12.6. Other adverse effects

Additional information : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Comply with local regulations for disposal.
Waste treatment methods : Dispose of at a licensed site. In case the undiluted product is discharged accidentally, neutralize to pH 7.
Product/Packaging disposal recommendations : Disposal must be done according to official regulations.

SECTION 14: Transport information

In accordance with ADR

14.1. UN number

UN-No. (ADR) : UN 1719

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Caustic alkali liquid, n.o.s.
Transport document description (ADR) : UN 1719 Caustic alkali liquid, n.o.s. (mixture with potassium hydroxide, caustic potash), 8, II, (E)

14.3. Transport hazard class(es)

ADR
Transport hazard class(es) (ADR) : 8
Danger labels (ADR) : 8
:

14.4. Packing Group

Packaging group (ADR) : II

14.5. Environmental hazards

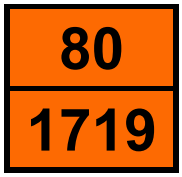
Dangerous for the environment : No
Other information : No supplementary information available

14.6. Special precautions for user

Special transport precautions : Risk of burns, Do not allow to enter drains or water courses.

- **Overland transport**

Hazard identification number (Kemler No.) : 80
Orange plates :



Tunnel restriction code (ADR) : E

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)
Contains no REACH substances with Annex XVII restrictions

REACH Annex XIV (Authorisation List)
Contains no REACH Annex XIV substances

REACH Candidate List (SVHC)
Contains no substance on the REACH candidate list

PIC Regulation (Prior Informed Consent)
Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants)
Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (1005/2009)
Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

VOC Directive (2004/42)
VOC content : 111.8 g/l

Explosives Precursors Regulation (2019/1148)
Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)
Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

15.1.1. National Regulations

No supplementary information available.

15.2. Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H- and EUH- statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
P234	Keep only in original container.
P264	Wash hands thoroughly after handling.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair) Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.

Safety Data Sheet (MSDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not, therefore, be construed as guaranteeing any specific property of the product.