1. Identification

GHS Product Identifier

Mixture identification:

Trade name: PULICOL 2000

Trade code: 901135

Recommended use of the chemical and restrictions on use

Recommended use: Cleaner

Uses advised against: Data not available.

Supplier's details

Company: MAPEI CONSTRUCTION CHEMICALS L.L.C
P.O. BOX 73869 DUBAI - United Arab Emirates

Office: 00971 4 8156666

Factory : 00971 4 8858428

Responsable: info@mapei.ae

Emergency phone number

Office: 00971 4 8156666

2. Hazard identification

Classification of the substance or mixture

Flammable liquid, Category 2	Highly flammable liquid and vapour.
Eye irritation, Category 2A	Causes serious eye irritation.
Specific target organ toxicity — single exposure, Category 3	May cause drowsiness or dizziness.

Adverse physicochemical, human health and environmental effects:

No other hazards

GHS label elements, including precautionary statements

Hazard pictograms and Signal Word



Danger

Hazard statements

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting/...] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing mist/vapours/spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/clothing and eye/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	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 if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use a CO2 fire extinguisher to extinguish.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with applicable regulations.

Other hazards which do not result in a classification

No other hazards

3. Composition/information on ingredients

Substances

Not Relevant

Mixtures

Mixture identification: PULICOL 2000

Hazardous components within the meaning of GHS and related classification:

Qty	Name	Ident. Numb.	Classification
≥60 - <70 %	acetone	CAS:67-64-1 EC:200-662-2 Index:606-001-00-8	Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336
≥1 - <2.5 %	Naphtha (petroleum), hydrotreated heavy	CAS:64742-48-9 EC:265-150-3 Index:649-327-00-6	Asp. Tox. 1, H304

4. First-aid measures

Description of necessary first-aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed

Eye irritation

Eye damages

Indication of immediate medical attention and special treatment needed, if necessary

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

(see paragraph 4.1)

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media:

Unsuitable extinguishing media:

None in particular.

Special hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

Special protective actions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Retain contaminated washing water and dispose it.

7. Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not use on extensive surface areas in premises where there are occupants.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Avoid accumulating electrostatic charge.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

Safety electric system.

8. Exposure controls/personal protection

Control parameters

Community Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
acetone CAS: 67-64-1	MEX	MEXICO	Long Term: 500 ppm; Short Term: 750 ppm
	IND	INDIA	Long Term: 1780 mg/m3 - 750 ppm; Short Term: 2375 mg/m3 - 1000 ppm
	ISL	ICELAND	Long Term: 600 mg/m3 - 250 ppm
	RUS	RUSSIAN FEDERATION	Long Term: 200 mg/m3; Short Term: 800 mg/m3
	IDN	INDONESIA	Long Term: 1187.12 mg/m3 - 500 ppm; Short Term: 1780 mg/m3 - 750 ppm
	EGY	EGYPT	Long Term: 1187 mg/m3 - 500 ppm; Short Term: 1780 mg/m3 - 750 ppm
	ZAF	SOUTH AFRICA	Long Term: 1780 mg/m3 - 750 ppm; Short Term: 3560 mg/m3 - 1500 ppm
	IDN	INDONESIA	Long Term: 1187 mg/m3 - 500 ppm; Short Term: 1780 mg/m3 - 750 ppm
	ISL	ICELAND	Short Term: Ceiling - 1200 mg/m3 - 500 ppm
	COL	COLOMBIA	Long Term: 250 ppm; Short Term: 500 ppm
	PER	PERU	Long Term: 1187 mg/m3 - 500 ppm; Short Term: 1781 mg/m3 - 750 ppm
	ARE	UNITED ARAB EMIRATES	Long Term: 1780 mg/m3 - 750 ppm; Short Term: 2380 mg/m3 - 1000 ppm
	SCG	SERBIA AND MONTENEGRO	Long Term: 1210 mg/m3 - 500 ppm
	PAN	PANAMA	Long Term: 2400 mg/m3 - 1000 ppm; Short Term: 3000 mg/m3 - 1260 ppm

Biological limit values

acetone
CAS: 67-64-1

Biological Indicator: Acetone; Sampling Period: End of turn
Value: 25 mg/L; Medium: Urine
Remark: Not Specific

Predicted No Effect Concentration (PNEC) values

acetone
CAS: 67-64-1

Exposure Route: Freshwater sediments; PNEC Limit: 30.4 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 3.04 mg/kg

Exposure Route: Fresh Water; PNEC Limit: 10.6 mg/l

Exposure Route: Marine water; PNEC Limit: 1.06 mg/l

Exposure Route: Soil; PNEC Limit: 29.5 mg/l

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l

Derived No Effect Level (DNEL) values

acetone
CAS: 67-64-1

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Industry: 186 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Industry: 2420 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Industry: 1210 mg/m3

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 62 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Consumer: 62 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Consumer: 200 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Industry: 2420 mg/m3

Appropriate engineering controls: N.A.

Individual protection measures, such as personal protective equipment (PPE)

Eye protection:

Use close fitting safety goggles, don't use contact lenses.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; EN ISO 374:

Polychloroprene - CR: thickness >=0,5mm; breakthrough time >=480min.

Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min.

Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min.

Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min.

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Personal Protective Equipment should comply with relevant CE standards (as EN ISO 374 for gloves and EN ISO 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

In case of insufficient ventilation use mask with ABEKP filters (EN 14387).

Use adequate protective respiratory equipment.

9. Physical and chemical properties

Physical state Liquid

Color: Colourless

Appearance: gel

Odour: Characteristic

Odour threshold: N.A.

pH: 6.00

Melting point / freezing point: N.A.

Initial boiling point and boiling range: 120 °C (248 °F)

Flash point: -17 °C (1 °F)

Evaporation rate: N.A.

Solid/gas flammability: N.A.

Upper/lower flammability or explosive limits: N.A.
Vapour pressure: <110 kPa at 50°C
Vapour density: N.A.
Relative density: 0.89 g/cm3
Solubility in water: partly soluble
Solubility in oil: N.A.
Partition coefficient (n-octanol/water): N.A.
Auto-ignition temperature: N.A.
Decomposition temperature: N.A.
Viscosity: N.A.

10. Stability and reactivity

Reactivity

It may generate dangerous reactions (See subsections below)

Chemical stability

It may generate dangerous reactions (See subsections below)

Possibility of hazardous reactions

None.

Conditions to avoid

Avoid accumulating electrostatic charge.

Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

Hazardous decomposition products

None.

11. Toxicological information

Information on toxicological effects

Toxicological Information of the Preparation

a) acute toxicity	Not classified
	Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not classified
	Based on available data, the classification criteria are not met
c) serious eye damage/irritation	The product is classified: Eye irritation, Category 2A(H319)
d) respiratory or skin sensitisation	Not classified
	Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified
	Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified
	Based on available data, the classification criteria are not met
h) STOT-single exposure	The product is classified: Specific target organ toxicity — single exposure, Category 3(H336)
i) STOT-repeated exposure	Not classified
	Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified
	Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

acetone	a) acute toxicity	LD50 Oral Rat = 5800 mg/kg
		LD50 Skin Rabbit = 20000 mg/kg
		LC50 Inhalation Rat = 76 mg/l 4h
		LC50 Inhalation Rat = 50100 mg/m3 8h
Naphtha (petroleum), hydrotreated heavy	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg
		LD50 Skin Rabbit > 2000 mg/kg

12. Ecological information

Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

Based on available data, the classification criteria are not met

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
acetone	CAS: 67-64-1 - EINECS: 200-662-2 - INDEX: 606-001-00-8	a) Aquatic acute toxicity : EC50 Daphnia = 8800 mg/L 48h
		a) Aquatic acute toxicity : LC50 Fish = 5540 mg/L 96h
		a) Aquatic acute toxicity : EC50 Algae = 302 mg/L 96h
Naphtha (petroleum), hydrotreated heavy	CAS: 64742-48-9 - EINECS: 265-150-3 - INDEX: 649-327-00-6	a) Aquatic acute toxicity : LC50 Fish = 8.2 mg/L 96
		a) Aquatic acute toxicity : EC50 Daphnia = 4.5 mg/L 48
		a) Aquatic acute toxicity : EC50 Algae = 3.1 mg/L 72
		a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 2200 mg/L 96h IUCLID

Persistence and degradability

Component	Persitence/Degradability:
acetone	Readily biodegradable

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

No Data found about other evironmental hazard properties.

13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

14. Transport information

UN number

1263

UN proper shipping name

ADR-Shipping Name: PAINT

IATA-Shipping Name: PAINT

IMDG-Shipping Name: PAINT

Transport hazard class(es)

ADR-Class: 3

IATA-Class: 3

IMDG-Class: 3

Packing group, if applicable

Road and Rail (ADR-RID):

ADR-Label: 3

ADR-Packing Group: II

ADR-Hazard identification number: 33

ADR-Transport category (Tunnel restriction code): 2 (D/E)

ADR-Limited Quantity threshold: 5 L

Air (IATA):

IATA-Passenger Aircraft: 353

IATA-Cargo Aircraft: 364

IATA-Label: 3

IATA-Packing group: II

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisions: A3 A72 A192

Sea (IMDG):

IMDG-Packing group: II

IMDG-Stowage and handling: Category B

IMDG-Segregation: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 163 367

IMDG-Page: N/A

IMDG-Label: N/A

IMDG-EMS: F-E, [S-E]

IMDG-MFAG: N/A

Environmental hazards

Marine pollutant: No

Environmental Pollutant: N.A.

Special precautions for user

N.A.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

15. Regulatory information

Safety, health and environmental regulations specific for the product in question

This Safety Data Sheet has been prepared according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Fifth revised edition.

16. Other information

Code	Description
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Code	Hazard class and hazard category	Description
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.3/2A	Eye Irrit. 2A	Eye irritation, Category 2A
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

Insert here further consulted bibliography

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

Paragraphs modified from the previous revision:

- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 4. FIRST AID MEASURES
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION