

1: Identification

1.1. Product identifier

Product form : Mixture
Product name : TRS PLASTO

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial
For professional use only
Use of the substance/mixture : adhesives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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1.4. Emergency telephone number

Emergency number : 704 100 087 (España)

2: Hazards identification

2.1. Classification of the substance or mixture

GHS Classification of the mixture

Flammable liquids Category 2 H225
Serious eye damage/eye irritation Category 2 H319
Specific target organ toxicity (single exposure) Category 3 H336

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Hazard pictograms (CLP) :



GHS02

GHS07

Signal word (CLP) : Danger

Hazardous ingredients : Acetone; butanone, ethyl methyl ketone

Hazard statements (CLP) : H225 - Highly flammable liquid and vapour
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness

Precautionary statements (CLP) : P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P223 - Do not allow contact with water.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

PPP safety precautions :

2.3. Other hazards

No additional information available

3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Globally Harmonized System of Classification and Labeling of Chemicals (GHS)
Acetone	(CAS-No.) 67-64-1 (EC-No.) 200-662-2	25 - 50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
butanone, ethyl methyl ketone	(CAS-No.) 78-93-3 (EC-No.) 201-159-0	25 - 50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Full text of H-phrases: see section 16

4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.
- 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 : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

- Symptoms/effects after inhalation : May cause drowsiness or dizziness.
- Symptoms/effects after eye contact : Causes serious eye irritation.

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

No additional information available

5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Highly flammable liquid and vapour.
- Explosion hazard : May form flammable/explosive vapor-air mixture.

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.
Hygiene measures : Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.
Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep in fireproof place. Keep container tightly closed.
Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.
Storage temperature : $\approx 10 - 25\text{ }^{\circ}\text{C}$

7.3. Specific end use(s)

See Heading 1.

8: Exposure controls/personal protection

8.1. Control parameters

Acetone (67-64-1)		
PELs 8 hour	1000 ppm	2400 mg/m ³
butanone, ethyl methyl ketone (78-93-3)		
PELs 8 hour	200ppm	590 mg/m ³

Acetone (67-64-1)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	\leq mg/kg bodyweight/day
Acute - local effects, inhalation	$\approx 2420\text{ mg/m}^3$
Long-term - local effects, dermal	$\approx 186\text{ mg/kg bodyweight/day}$
Long-term - local effects, inhalation	$\approx 1210\text{ mg/m}^3$
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	$\approx 62\text{ mg/kg bodyweight/day}$
Long-term - systemic effects, inhalation	$\approx 200\text{ mg/m}^3$
Long-term - systemic effects, dermal	$\approx 62\text{ mg/kg bodyweight/day}$
PNEC (Water)	
PNEC aqua (freshwater)	$\approx 10.6\text{ mg/l}$
PNEC aqua (marine water)	$\approx 1.06\text{ mg/l}$
PNEC aqua (intermittent, freshwater)	$\approx 21\text{ mg/l}$
PNEC (Sediment)	
PNEC sediment (freshwater)	$\approx 30.4\text{ mg/kg dwt}$
PNEC sediment (marine water)	$\approx 3.04\text{ mg/kg dwt}$

Acetone (67-64-1)	
PNEC (Soil)	
PNEC soil	≈ 33.3 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	≈ 100 mg/l

8.2. Exposure controls

Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemical which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), as well as the instructions/specifications provided by the gloves supplier. Chemical resistant gloves according to EN 374. The gloves are recommended with a protection factor 6; corresponding > 480 minutes of permeation time. For example nitrile rubber (0.4 mm), neoprene rubber (0.5 mm), chlorure de polyvinilo (0.7 mm).
Eye protection	: Integral goggles mounting (EN 166).
Skin and body protection	:
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Mask with filter against organic gases and vapors as type A (EN14387)
Other information	: Do not eat, drink or smoke during use.

9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Colorless.
Odor	: characteristic.
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: ≈ -84 °C
Freezing point	: No data available
Boiling point	: > 55 °C
Flash point	: ≈ -18 °C Acetone
Auto-ignition temperature	: ≈ 514 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapour
Vapor pressure	: ≈ 32.4 mbar
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: ≈ 0.85 g/cm ³
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: 5291 mm ² /s
Viscosity, dynamic	: ≈ 4500 mPa.s
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

9.2. Other information

No additional information available

10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Highly flammable liquid and vapour. May form flammable/explosive vapor-air mixture.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers. Amines.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Acetone (67-64-1)	
LD50 oral	5800 mg/kg body weight
LD50 dermal	> 15688 mg/kg body weight
LC50 inhalation rat (Dust/Mist - mg/l/4h)	50100 mg/l

Skin corrosion/irritation : Not classified

Additional information : Based on available data, the classification criteria are not met

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : May cause drowsiness or dizziness.

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : Not classified

TRS PLASTO	
Viscosity, kinematic	5291 mm ² /s

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

12: Ecological information

12.1. Toxicity

Acetone (67-64-1)	
LC50 fish	5540 mg/l
EC50 other aquatic organisms 1	12600 mg/l waterflea
EC50 other aquatic organisms 2	3400 mg/l

12.2. Persistence and degradability

TRS PLASTO	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

TRS PLASTO	
Bioaccumulative potential	Not established.

Acetone (67-64-1)	
Log Pow	-0.24

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment.

13: Disposal considerations

13.1. Waste treatment methods




Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Additional information : Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials : Avoid release to the environment.

14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA
14.1. UN number		
1133	1133	1133
14.2. UN proper shipping name		
ADHESIVES	ADHESIVES	Adhesives
Transport document description		
UN 1133 ADHESIVES (Acetone), 3, III, (D/E)	UN 1133 ADHESIVES, 3, III	UN 1133 Adhesives, 3, III
14.3. Transport hazard class(es)		
3	3	3
		
14.4. Packing group		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No
No supplementary information available		

14.6. Special precautions for user

Transport in accordance with section 2.2.3.1.5 of the ADR (viscous substance) may be applied,

Transport in accordance with section 2.3.2.5 of the IMDG (viscous substance) may be applied,

Transport in accordance with section 3.3.3 of the IATA (viscous substance) may be applied

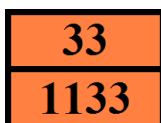
Overland transport

Classification code (ADR) : F1
 Special provision (ADR) : 640H
 Limited quantities (ADR) : 5I
 Excepted quantities (ADR) : E1
 Packing instructions (ADR) : P001, IBC02, LP01, R001
 Mixed packing provisions (ADR) : MP19
 Portable tank and bulk container instructions (ADR) : T2
 Portable tank and bulk container special provisions (ADR) : TP1
 Tank code (ADR) : LGBF
 Vehicle for tank carriage : FL
 Transport category (ADR) : 3

Special provisions for carriage - Operation (ADR) : S2

Hazard identification number (Kemler No.) : 33

Orange plates :



Tunnel restriction code (ADR) : D/E

- Transport by sea

Special provision (IMDG) : 223, 955

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P001, LP01

Packing provisions (IMDG) : PP1

IBC packing instructions (IMDG) : IBC03

Tank instructions (IMDG) : T2

Tank special provisions (IMDG) : TP1

EmS-No. (Fire) : F-E

EmS-No. (Spillage) : S-D

Stowage category (IMDG) : A

Properties and observations (IMDG) : Adhesives are solutions of gums, resins, etc., usually volatile due to the solvents. Miscibility with water depends upon their composition.

- Air transport

PCA Excepted quantities (IATA) : E1

PCA Limited quantities (IATA) : Y344

PCA limited quantity max net quantity (IATA) : 10L

PCA packing instructions (IATA) : 355

PCA max net quantity (IATA) : 60L

CAO packing instructions (IATA) : 366

CAO max net quantity (IATA) : 220L

Special provision (IATA) : A3

ERG code (IATA) : 3L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15: Regulatory information

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

15.1.1. Federal/National

EINECS: Listed

Acetone	(EC Index-No.) 606-001-00-8 (REACH-no) 01-2119471330-49
butanone, ethyl methyl ketone	(EC Index-No.) 606-002-00-3 (REACH-no) 01-2119457290-43

15.1.2. State/Local

Ensure all national/local regulations are observed.

New Jersey Hardous Substances: Not Listed

California Proposicion 65: Not Listed

16: Other information



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TRS PLASTO

Material Safety Data Sheet

Training advice : workers must have risk-specific training.
Other information : None.

Full text of H- and EUH-phrases:

Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapour
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

REVISED: 04/10/2018

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



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