

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

1.1. Product identifier

Product form : Mixture
Product name : TRS 4004

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

Function or use category : Adhesives, binding agents

1.2.2. Uses advised againstNo additional information available

1.3. Details of the supplier of the safety data sheet

Comercial Química Massó, S.A. (Česká Republika) Baarova 1542/48 140 00 Praha 4 - CESKÁ REPUBLIKA T +420 241 006 571 - F +420 241 481 798 msds.support@cgmasso.com

1.4. Emergency telephone number

Emergency number : 704 100 087 (España)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 2

Skin corrosion/irritation, Category 2

Serious eye damage/eye irritation, Category 2

H315

Specific target organ toxicity — Single exposure, Category 3, Narcosis

Aspiration hazard, Category 1

H304

Hazardous to the aquatic environment — Acute Hazard, Category 1

H400

Hazardous to the aquatic environment — Chronic Hazard, Category 1

H410

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to displayExtra classification(s) to display

Hazard pictograms (CLP)









GHS08

GHS09

Signal word (CLP) : Danger

Hazardous ingredients : Ethyl acetate; zinc oxide; rosin; colophony; cyclohexane

Hazard statements (CLP) : H225 - Highly flammable liquid and vapour

H304 - May be fatal if swallowed and enters airways



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H315 - Causes skin irritation

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) : P280 - Wear protective gloves, protective clothing, eye protection

P273 - Avoid release to the environment

P261 - Avoid breathing spray, vapours, mist, dust

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing

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

: EUH066 - Repeated exposure may cause skin dryness or cracking

EUH208 - Contains rosin; colophony(8050-09-7). May produce an allergic reaction

PPP safety precautions

2.3. Other hazards

EUH-statements

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethyl acetate	(CAS-No.) 141-78-6 (EC-No.) 205-500-4 (EC Index-No.) 607-022-00-5	50 - 100	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
cyclohexane	(CAS-No.) 110-82-7 (EC-No.) 203-806-2 (EC Index-No.) 601-017-00-1	25 - 50	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
zinc oxide	(CAS-No.) 1314-13-2 (EC-No.) 215-222-5 (EC Index-No.) 030-013-00-7	1 - 5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
rosin; colophony	(CAS-No.) 8050-09-7 (EC-No.) 232-475-7 (EC Index-No.) 650-015-00-7	0,1 - 1	Skin Sens. 1, H317

Full text of H-statements: see section 16

SECTION 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. Wash

with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). Wash contaminated

clothing before reuse.

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 an allergic skin reaction. May cause drowsiness or dizziness.

Symptoms/effects after eye contact : Causes serious eye irritation.



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

No additional information available

SECTION 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 vapour-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 the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 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/vapours/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. Avoid release to the environment.

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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

Precautions for safe handling

: Handle empty containers with care because residual vapours are flammable.

: 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 vapour. No open flames. No smoking. Use only non-sparking tools. Use only outdoors or in a

well-ventilated area.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated

clothing before reuse.

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 : $\approx 10 - 25 \, ^{\circ}\text{C}$

7.3. Specific end use(s)

See Heading 1.2.



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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ethyl acetate (141-78-6)	
France	Local name	Acétate d'éthyle
France	VME (mg/m³)	1400 mg/m³
France	VME (ppm)	400 ppm
Germany	Local name	Ethylacetat
Germany	TRGS 900 Occupational exposure limit value (mg/m³)	1500 mg/m³
Germany	TRGS 900 Occupational exposure limit value (ppm)	400 ppm
Germany	Remark (TRGS 900)	DFG,Y
Portugal	Local name	Acetato de etilo
Portugal	OEL TWA (ppm)	400 ppm
Spain	Local name	Acetato de etilo
Spain	VLA-ED (mg/m³)	1460 mg/m³
Spain	VLA-ED (ppm)	400 ppm
United Kingdom	Local name	Ethyl acetate
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (ppm)	400 ppm
Switzerland	Local name	Acétate d'éthyle
Switzerland	MAK (mg/m³)	1400 mg/m³
Switzerland	MAK (ppm)	400 ppm
Switzerland	KZGW (mg/m³)	2800 mg/m³
Switzerland	KZGW (ppm)	800 ppm
Switzerland	Remark (CH)	4x15
zinc oxide (1314-13-2)		<u> </u>
Portugal	Local name	Óxido de zinco
Portugal	OEL TWA (mg/m³)	2 mg/m³
Portugal	OEL STEL (mg/m³)	10 mg/m³
Spain	Local name	Óxido de cinc
Spain	VLA-ED (mg/m³)	2 mg/m³ Fracción respirable (2011)
Spain	VLA-EC (mg/m³)	10 mg/m³ Fracción respirable (2011)
Spain	Notes	d (Véase UNE EN 481: Atmósferas en los puestos de trabajo. Definición de las fracciones por el tamaño de las partículas para la medición de aerosoles.)
Switzerland	Local name	Oxyde de zinc (fumée)
Switzerland	MAK (mg/m³)	3 mg/m³
Switzerland	KZGW (mg/m³)	3 mg/m³
Switzerland	Remark (CH)	15 min
rosin; colophony (8050	0-09-7)	
Spain	Local name	Resina núcleo de soldadura (Colofonia)
Spain	Notes	m (Los productos de descomposición térmica en el ambiente de la resina núcleo de soldadura, colo-fonia tienen un marcado carácter sensibilizante, lo que aconseja reducir la exposición laboral a los mismos lo máximo posible.), Sen (Sensibilizante. Véase Apartado 6.)
United Kingdom	Local name	Rosin-based solder flux fume
United Kingdom	WEL TWA (mg/m³)	0,05 mg/m³
United Kingdom	WEL STEL (mg/m³)	0,15 mg/m³
United Kingdom	Remark (WEL)	Sen (Capable of causing occupational asthma. See paragraphs 53–56)

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.





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Hand protection

: The selection of a specific glove for a particular application and duration of use in a workplace shoud also take into to acount all relevant workplace factors such as, but not limited to :Other chemical wich may be handled, physical requierements (cut/puncture protection, desterity, thermal protection), as well as the instructions/specifications provided by the gloves supplier.

: Integral goggles mounting (EN 166). Eye protection

Where exposure through inhalation may occur from use, respiratory protection equipment is Respiratory protection

recommended. Combined filter for organic, inorganic gases, inorganic acids and alkaline /

steam type ABEK (according to EN 14387)

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state : Liquid Colour dark grey. Odour characteristic. Odour threshold No data available pΗ No data available Relative evaporation rate (butylacetate=1) No data available Melting point No data available Freezing point : No data available Boiling point : No data available Flash point < 0 °C

: No data available Auto-ignition temperature Decomposition temperature : No data available

Flammability (solid, gas) : Highly flammable liquid and vapour

Vapour pressure No data available Relative vapour density at 20 °C : No data available Relative density : No data available Solubility : immiscible and insoluble.

Log Pow No data available > 2947,37 mm²/s Viscosity, kinematic Viscosity, dynamic ≈ 2800 mPa.s Explosive properties : No data available Oxidising properties No data available Explosive limits No data available

Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

Chemical stability

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

Possibility of hazardous reactions

Not established.

Conditions to avoid

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

Incompatible materials

Strong acids. Strong bases.

Hazardous decomposition products

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



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SECTION 11: Toxicological information

11.1. Information on toxicological effects

: Not classified Acute toxicity

Ethyl acetate (141-78-6)

2750 ppmv/4h LC50 inhalation rat (ppm)

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation Not classified Germ cell mutagenicity Not classified : Not classified Carcinogenicity Reproductive toxicity : Not classified

: May cause drowsiness or dizziness. STOT-single exposure

STOT-repeated exposure : Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

TRS 4004

Viscosity, kinematic > 2947,37 mm²/s

Potential adverse human health effects and

symptoms

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

SECTION 12: Ecological information

12.1. **Toxicity**

: Toxic to aquatic life with long lasting effects. Ecology - water

zinc oxide (1314-13-2)	
LC50 fishes	< 1 mg/l
EC50 48h - Daphnia magna [mg/l]	< 1 mg/l
ErC50 (algae)	< 1 mg/l

Persistence and degradability 12.2.

TRS 4004

Persistence and degradability May cause long-term adverse effects in the environment.

Bioaccumulative potential 12.3.

TRS 4004

Not established Bioaccumulative potential

12.4. Mobility in soil

No additional information available

Results of PBT and vPvB assessment 12.5.

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment

SECTION 13: Disposal considerations

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 vapours are flammable.

Ecology - waste materials : Avoid release to the environment.





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SECTION 14: Transport information

In accordance with ADR / RI	ID / IMDG / IATA / ADN
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III accordance with ADR / RID / INIDG / IATA / ADIN				
ADR	IMDG	IATA		
14.1. UN number				
1133	1133	1133		
14.2. UN proper shipping name	14.2. UN proper shipping name			
ADHESIVES	ADHESIVES	Adhesives		
Transport document description				
UN 1133 ADHESIVES (Ethyl acetate), 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 1133 ADHESIVES, 3, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 1133 Adhesives, 3, II, ENVIRONMENTALLY HAZARDOUS		
14.3. Transport hazard class(es)				
3	3	3		
1 1 2 2 3 3 3 3 3 3 3 3 3 3	₩	**************************************		
14.4. Packing group				
II	II	II		
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes		
No supplementary information available				

14.6. Special precautions for user

- Overland transport

: F1 Classification code (ADR) : 640D Special provisions (ADR) Limited quantities (ADR) : 51 Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02, R001

Special packing provisions (ADR) : PP1 Mixed packing provisions (ADR) : MP19 Portable tank and bulk container instructions : T4 (ADR)

Portable tank and bulk container special

provisions (ADR)

: TP1, TP8

Tank code (ADR) : LGBF Vehicle for tank carriage : FL Transport category (ADR) : 2 Special provisions for carriage - Operation : S2, S20 (ADR)

Hazard identification number (Kemler No.)

: 33

Orange plates

Tunnel restriction code (ADR) : D/E

- Transport by sea

Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E2 Packing instructions (IMDG) : P001 Special packing provisions (IMDG) : PP1 IBC packing instructions (IMDG) : IBC02





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Tank instructions (IMDG) : T4

Tank special provisions (IMDG) : TP1, TP8
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-D
Stowage category (IMDG) : B

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) : E2 PCA Limited quantities (IATA) : Y341 PCA limited quantity max net quantity (IATA) : 1L : 353 PCA packing instructions (IATA) PCA max net quantity (IATA) : 5L CAO packing instructions (IATA) : 364 CAO max net quantity (IATA) : 60L Special provisions (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

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Ensure all national/local regulations are observed.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Training advice : workers must have risk-specific training.

Other information : None.

Full text of H- and EUH-statements:

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction





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	· · · ·
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
EUH066	Repeated exposure may cause skin dryness or cracking
EUH208	Contains . May produce an allergic reaction

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Flam. Liq. 2	H225	On basis of test data
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
STOT SE 3	H336	Calculation method
Asp. Tox. 1	H304	
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

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