

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product identifier.

Product Name: ACEBOND
Product Code: R025805-00

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

No further relevant information available.
Application of the substance / the mixture: Adhesives

1.3 Details of the supplier of the safety data sheet.

Company: ACE COATINGS
Address: Campo Sagrado, 1133205
City: Gijón
Province: Asturias
Telephone: +34 985 323 328
E-mail: info@acecoatings.com
Web: www.acecoatings.com

1.4 Emergency telephone number:

+34 985 323 328 (Only available during office hours; Monday-Friday; 08:00-18:00)

SECTION 2: HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 2 H225 Highly flammable liquid and vapour.
Acute Tox. 4 H332 Harmful if inhaled.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Dam. 1 H318 Causes serious eye damage.
Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT SE 3 H335 May cause respiratory irritation.
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Additional information: The classification resulted from the calculation method of CLP-regulation

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS02

GHS05

GHS07

GHS08

Signal word: Danger

Hazard-determining components of labelling:

4-methylpentan-2-one

cyclohexanone

xylene, mixed isomers, pure

Benzene, 1,1'-methylenebis[isocyanato-, homopolymer

Hazard statements

H225 Highly flammable liquid and vapour.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

Precautionary statements

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

P243 Take precautionary measures against static discharge.

P261 Avoid breathing mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves / eye protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

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P331 Do NOT induce vomiting.

P403 Store in a well-ventilated place.

Additional information:

EUH204 Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards

In the event of a large-scale use of the product, ignition sources in the immediate proximity and in low-lying areas, such as welding equipment, bells, heating elements, refrigerators, storage heaters etc. should be switched off! Erect warning signs warning of the hazardous risk of explosive atmosphere!

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Chemical characterisation: Mixtures

Description: Mixture of several substances

- Dangerous components:		
CAS: 108-10-1 EINECS: 203-550-1 Reg.nr.: 2119473980-30-xxxx	4-methylpentan-2-one Flam. Liq. 2, H225; Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	20-<40%
CAS: 108-94-1 EINECS: 203-631-1 Reg.nr.: 2119453616-35-xxxx	cyclohexanone Flam. Liq. 3, H226; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	15-25%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-xxxx	xylene, mixed isomers, pure Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	10-20%
CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 2119489370-35-xxxx	ethylbenzene Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332	< 5.0%
CAS: 101-68-8 EINECS: 202-966-0 Reg.nr.: 01-2119457014-47-xxxx	diphenylmethane-4,4'-diisocyanate Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	< 0.5%
CAS: 96-29-7 EINECS: 202-496-6 Reg.nr.: 2119539477-28-xxxx	2-butanone oxime Carc. 2, H351; Eye Dam. 1, H318; Acute Tox. 4, H312; Skin Sens. 1, H317	< 0.5%
CAS: 39310-05-9 Polymer	Benzene, 1,1'-methylenebis[isocyanato-, homopolymer Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	< 0.2%

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SVHC: Doesn't contain SVHC-substances

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

After inhalation

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness bring patient into a stable side position for transport.

After skin contact

Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.

After eye contact

Rinse opened eye for several minutes under running water. Then consult doctor.

After swallowing

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents:

Water spray

Alcohol-resistant foam

Fire-extinguishing powder

Carbon dioxide

For safety reasons unsuitable extinguishing agents: Water with full jet.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Keep away from ignition sources

Use respiratory protective device against the effects of fumes/dust/aerosol.

6.2 Environmental precautions

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up

Pick up mechanically.

6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Fumes can combine with air to form an explosive mixture.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles: Prevent any seepage into the ground.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions: Protect from frost. Keep receptacle tightly sealed.

Protect from heat and direct sunlight. Store receptacle in a well ventilated area. Store in dry conditions.

Storage class (according german VCI-concept): 3

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems: No further data; see item 7.

8.1 Control parameters

- Components with limit values that require monitoring at the workplace:	
108-10-1 4-methylpentan-2-one	
WEL (Great Britain)	Short-term value: 416 mg/m ³ , 100 ppm Long-term value: 208 mg/m ³ , 50 ppm Sk, BMGV
IOELV (European Union)	Short-term value: 208 mg/m ³ , 50 ppm Long-term value: 83 mg/m ³ , 20 ppm
108-94-1 cyclohexanone	
WEL (Great Britain)	Short-term value: 82 mg/m ³ , 20 ppm Long-term value: 41 mg/m ³ , 10 ppm Sk, BMGV
IOELV (European Union)	Short-term value: 81.6 mg/m ³ , 20 ppm Long-term value: 40.8 mg/m ³ , 10 ppm Skin
100-41-4 ethylbenzene	
WEL (Great Britain)	Short-term value: 552 mg/m ³ , 125 ppm Long-term value: 441 mg/m ³ , 100 ppm Sk
IOELV (European Union)	Short-term value: 884 mg/m ³ , 200 ppm Long-term value: 442 mg/m ³ , 100 ppm Skin
101-68-8 diphenylmethane-4,4'-diisocyanate	
WEL (Great Britain)	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO

- DNELs		
108-10-1 4-methylpentan-2-one		
Inhalative	worker (long-term exposure/systemic)	83 mg/m³
	worker (long-term exposure/local)	83 mg/m³
108-94-1 cyclohexanone		
Inhalative	worker (long-term exposure/systemic)	40 mg/m³
	worker (long-term exposure/local)	40 mg/m³
100-41-4 ethylbenzene		
Inhalative	worker (long-term exposure/systemic)	77 mg/m³
- Ingredients with biological limit values:		
108-10-1 4-methylpentan-2-one		
BMGV (Great Britain)	20 µmol/L Medium: urine Sampling time: post shift Parameter: 4-methylpentan-2-one	
108-94-1 cyclohexanone		
BMGV (Great Britain)	2 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: cyclohexanol	
1330-20-7 xylene, mixed isomers, pure		
BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid	

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures should be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of the work.

Immediately remove all soiled and contaminated clothing.

Breathing equipment:

Not required with good ventilation and/or adequate extractor facilities

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Short term filter device:

A2 (DIN EN 14387 / DIN EN 141)

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Protection of hands:

Direct contact with the chemical preparation must be avoided by organizational measures. Apply skin protectant before working with gloves to avoid skin swellings and use a skin cleansing and skincare product after the work.

Compliance with the stated penetration time (starts with the first product contact) must be ensured!

The gloves need to be disposed of after the penetration time and new gloves used!

For the permanent contact gloves made of the following materials are suitable:

If longer exposure to the chemical preparation is necessary, a sturdy overglove against mechanical strain is recommended in combination with the "Barrier 02-100" underglove from Ansell (penetration time 480 min).

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Fluorinated rubber (Viton) [0.7mm - penetration time 15 min]

As protection from splashes gloves made of the following materials are suitable:

Recommended for protection from splashes: disposable nitrile gloves (minimum thickness 0.12mm) with long cuffs. After contact with the chemical preparation, take the disposable nitrile glove off immediately and put on a new disposable nitrile glove.

Eye protection

Safety glasses

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information

Appearance: Form: Fluid. Colour: Colourless

Odour: Solvent-like

Change in condition: Boiling point/Boiling range: 114 °C

Flash point: 14 °C

Ignition temperature: 430 °C

Explosion limits: Lower: 1.0 Vol %. Upper: 9.4 Vol %.

Vapour pressure at 20 °C: 9 hPa

Specific gravity at 20 °C: 0.9 g/cm³

Solubility in / Miscibility with

Water: Partly soluble

Solvent content:

Organic solvents: 78.0 %

VOC (EU): 706.5 g/l

VOC (EU): 78.38 %

VOC (CH): 77.99 %

9.2 Other information

No further relevant information available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

To avoid thermal decomposition do not overheat.

10.3 Possibility of hazardous reactions

Reacts with strong acids and oxidizing agents

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

None, if used according to instructions and stored according to regulations.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Harmful if inhaled.

LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimates)

Oral-LD50-2158 mg/kg

Dermal -LD50 -2685 mg/kg

Inhalative -LC50/4 h- 14.1 mg/l

108-10-1 4-methylpentan-2-one

Oral LD50 2080 mg/kg (rat)

Inhalative LC50/4 h 11 mg/l (ATE)

108-94-1 cyclohexanone

Oral- LD50 -500 mg/kg (ATE)

Dermal -LD50- 1100 mg/kg (ATE)

Inhalative- LC50/4 h- 11 mg/l (ATE)

1330-20-7 xylene, mixed isomers, pure

Oral- LD50- 3523 mg/kg (rat)

Dermal- LD50- 1100 mg/kg (ATE)

Inhalative- LC50/4 h- 11 mg/l (ATE)

100-41-4 ethylbenzene

Oral- LD50 -3500 mg/kg (rat)

Dermal- LD50 -17800 mg/kg (rbt)

Inhalative- LC50/4 h -11 mg/l (ATE)

Primary irritant effect:

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye damage.

Respiratory or skin sensitisation: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

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

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

STOT-single exposure: May cause respiratory irritation.

STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.

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

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity**

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

Additional ecological information:

General notes: Do not allow product to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Recommendation: Disposal in accordance with official regulations

EWC-Code(s):

To be treated as industrial waste: do not dispose of in or on soil, in watercourses or bodies, or through a sewage system. These EU refuse code numbers are recommendations for waste accruing through the use of adhesives and sealants. Any waste produced from organic solvents or other dangerous substances listed under item 3 of this safety datasheet is itself classified as dangerous (*).

Waste accruing during application:

080409* waste adhesives and sealants containing organic solvents or other dangerous substances

080410 waste adhesives and sealants other than those mentioned in 080409

Waste accruing during cleaning:

08 04 11* adhesive and sealant sludges containing organic solvents or other dangerous substances

08 04 12 adhesive and sealant sludges other than those mentioned in 080411

Soiled waste packaging:

15 01 10* packaging containing residues of or contaminated by dangerous substances.

Clean waste packaging:

15 01 01 paper and cardboard packaging

15 01 02 plastic packaging

15 01 04 metallic packaging

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 UN-Number

ADR,RID,ADN, IMDG, IATA UN1133

14.2 UN proper shipping name

ADR/RID/ADN 1133 ADHESIVES

IMDG, IATA ADHESIVES

14.3 Transport hazard class(es)

ADR,RID,ADN, IMDG, IATA

Class 3 Flammable liquids.

Label 3



14.4 Packing group

ADR,RID,ADN, IMDG, IATA II

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user Warning

Flammable liquids.

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Danger code (Kemler): 30

EMS Number: F-E,S-D

Stowage Category A

14.7 Transport in bulk according to Annex II of

Marpol and the IBC Code: Not applicable.

Transport/Additional information:

ADR/RID/ADN

Limited quantities (LQ): 5L

Excepted quantities (EQ): Code: E2. Maximum net quantity per inner packaging: 30 ml. Maximum net quantity per outer packaging: 500 ml

Transport category: 2

- Tunnel restriction code: D/E

IMDG

Limited quantities (LQ): 5L

Excepted quantities (EQ) Code: E1. Maximum net quantity per inner packaging: 30 ml. Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation": UN 1133 ADHESIVES, 3, II

SECTION 15: REGULATORY INFORMATION

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

Directive 2012/18/EU

Qualifying quantity (tonnes) for the application of lower-tier requirements: 5.000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements: 50.000 t

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 56a, 56b

National regulations

Disturbance regulations:

Critical quantity values according to the regulations on accidents should be adhered to.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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SECTION 16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

For industrial use only.

Legend of H- and R-phrases, concerning the in chapter 3 mentioned substances (marking of product please see chapter 2)

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

Department issuing SDS

Abbreviations and acronyms

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

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VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

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