



06-01-2020 / REVISION 5

HUMIDUR.

Safety Data Sheet

Humiclean®

ACOTEC N.V.

Industrielaan 8 Zuid III

9320 Aalst, Belgium

WWW.HUMIDUR.BE
INFO@ACOTEC.BE

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name: Humiclean®

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

Specific use(s): liquid preparation, solvent

1.3. Details of the supplier of the safety data sheet :

Importer: Matrix Composites & Engineering
150 Quill Way
Henderson WA 6166
Australia
Telephone: +61 8 9412 1200
E-mail address : matrix@matrixengineered.com

Information provided by:

Acotec NV
Industrielaan 8 Zuid III
9320 Aalst (Erembodegem) – Belgium
Telephone : +32 53 83 86 60
E-mail address : info@acotec.be

1.4. Emergency telephone number

Emergency information :

- Matrix Composites & Engineering
During business hours: +61 8 9412 1200
After business hours (national call): 1300 729 130
- For Poison Advice in Australia: 131 126
To provide telephone consultation to medical professionals and the general public in case of acute and chronic poisonings – 24 h a day

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to the Regulation (EC) N° 1272/2008 (GHS)

This product is not classified as dangerous according to Regulation (EC) N° 1272/2008.

Classification according to directives 1999/45/EC and 67/548/EEC

This product is not a hazardous substance or mixture according to EC-directives 1999/45/EC and 67/548/EEC.

Label elements according to Regulation (EC) N° 1272/2008

This product is not classified as dangerous according to Regulation (EC) N° 1272/2008.

2.2. Label elements according to Regulation (EC) N° 1272/2008 (GHS)

Symbol(s) : /

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2.3. Other dangers:

Slightly irritating to eyes

Harmful to aquatic organisms

On combustion, toxic gases are released.

Hazardous reactions may occur on contact with certain chemicals. (Refer to the list of incompatible materials section 10: "Stability-Reactivity").

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances:

Chemical characterization: reaction mass of dimethyl adipate, dimethyl glutarate, dimethyl succinate

Hazardous components according to the Regulation (EC) N° 1272/2008 (GHS)

Chemical name	CAS / EC / Registration N°	Concentration [%]	GHS product identifier
Reaction mass of dimethyl adipate and dimethyl glutarate and dimethyl succinate	EC N°: 906-170-0 self classification	≥ 99 - < 100	Not classified
Methanol	Index N°: 603-001-00-X CAS-N°: 67-56-1	≤ 0.2	Flam.Liq., 2, H225 Acute Tox., 3 Inhalation, H331 Acute Tox., 3 Skin, H311 Acute Tox., 3 Oral, H301 STOT SE 1 H370

3.2. Mixtures

Not applicable, this product is a substance.

The full text of the risk phrases and hazard statements is contained in section 16. All existing information on exposure limits is contained in section 8.

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

<i>General advice</i>	Show this safety data sheet to the doctor in attendance. First aider needs to protect himself. Place affected clothing in a sealed bag for subsequent decontamination.
<i>After inhalation</i>	If inhaled, remove to fresh air. Consult a physician if necessary.
<i>After skin contact</i>	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.
<i>After eye contact</i>	Rinse with running water whilst keeping the eyes wide open (at least 15 minutes)
<i>After ingestion</i>	Do NOT induce vomiting. Rinse mouth with water

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4.2. Most important symptoms and effects, both acute and delayed: no data available

4.3. Indication of any immediate medical attention and special treatment needed: no data available

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: water spray, foam, carbon dioxide (CO₂), multi-purpose powders

Unsuitable extinguishing media: high volume water jet

5.2. Special hazards arising from the substance or mixture

Combustible, however, does not present any particular risk in the event of a fire.

On combustion, toxic gases are released.

5.3. Advice for firefighters

Special protective equipment for fire-fighters: Wear self contained breathing apparatus if necessary.

Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing.

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

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with the skin and the eyes.

Do not breathe vapour.

Do not allow uncontrolled discharge of product into the environment.

Personal protective equipment.

Wear suitable protective equipment, suitable gloves and safety glasses.

Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Dam up. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local/national regulations (see section 13).

Keep in suitable, closed containers for disposal.

Decontamination/cleaning : Wash off with plenty of water.

Recover the cleaning water for subsequent disposal.

Disposal : Dispose of in accordance with local regulations

6.4. Reference to other sections: /

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Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

<i>Technical measures</i>	Use only in area provided with appropriate exhaust ventilation
<i>Advice on safe handling</i>	Handle in accordance with good industrial hygiene and safety practice

7.2. Conditions for safe storage, including any incompatibilities

<i>Technical measures</i>	Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
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Recommended storage conditions

Stable under normal conditions. Keep container tightly closed.
Keep in a well-ventilated place. Keep in a dry, cool place. Keep away from heat and sources of ignition.
Keep away from incompatible materials to be indicated by the manufacturer
Store in original container.

<i>Incompatible products</i>	Strong bases, strong acids, strong oxidizing agents
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<i>Packaging measures</i>	Recommended packaging materials: coated steels, plastic materials
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7.3. Specific end use(s): /

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Components with workplace control parameters

DNEL/DMEL values

Product name	Population	Route of exposure	Potential health effects	Value
Reaction mass of dimethyl adipate and dimethyl glutarate and dimethyl succinate	Workers	Inhalation	Local effects, chronic effects	8.3 mg/m ³
	Consumers	Inhalation	Local effects, chronic effects	5 mg/m ³

PNEC values

Product name	Compartment	Value	Remarks
Reaction mass of dimethyl adipate and dimethyl glutarate and dimethyl succinate	Fresh water	0.018 mg/l	
	Marine water	0.0018 mg/l	
	STP	10 mg/l	
	Water	0.18 mg/l	PNEC Intermittent
	Fresh Water Sediment	0.16 mg/kg (dw)	

Control measures :

Engineering measures: Provide adequate ventilation. Extract at emission point.

8.2. Exposure controls

Personal protective equipment

Respiratory protection

Use a respirator with an approved filter if a risk assessment indicates this is necessary.

Hand protection

Glove material: butyl-rubber

Protective index Class 6

Break through time: > 480 min

Glove thickness: 0.5 mm

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Gloves must be inspected prior to use. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection: Goggles

Skin and body protection

Protective suit. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Emergency equipment immediately accessible, with instructions for use.

Ensure that eyewash stations and safety showers are close to the workstation location. Use clean, well-maintained personal protection equipment. Wash hands before breaks and at the end of workday.

When using do not eat, drink or smoke.

Protective measures

The protective equipment must be selected in accordance with current CEN standards and in cooperation with the supplier of the protective equipment.

Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards and/or risks that may occur during use.

General advise

Dam up. Prevent product from entering drains.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form	liquid
Physical state	liquid
Colour	colourless

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Odour very faint
Smell threshold no data available

9.2. Other information:

Safety data

pH	5.0 - 7.0 at 5 % (m/v) Aqueous solution	
Freezing point	-55.4 °C at 970 – 1 010 hPa	
Boiling point/boiling range	209.3 °C at 993 hPa	
Flash point	99 °C closed cup	
Flammability (solid, gas)	no data available	
Auto-ignition temperature	> 400 °C auto-ignition temperature (liquids and gases)	Method: A15
Oxidizing properties	Non oxidizing material according to EC criteria	
Water solubility	26 - 40.5 g/l estimated	
Solubility in other solvents	common organic solvents	
Partition coefficient	n-octanol/water: log P _{ow} : 1.4 estimated	
Vapour pressure	0.094 hPa at 25 °C estimated	
Evaporation rate	no data available	
Relative vapour density	no data available	
Density	no data available	
Relative density	1.0915 at 20 °C	
Oxidation/reduction potential	no data available	
Viscosity, dynamic	2.85 mPa.s at 20 °C	
Viscosity, kinematic	no data available	
Surface tension	67.3 mN/m 1 g/l at 20 °C	
Explosive properties	no data available	
Thermal decomposition	no data available	
Lower explosion limit	0.80 - 1.00 %(V)	
Upper explosion limit	7.00 - 9.00 %(V)	

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under normal conditions

10.3. Possibility of hazardous reactions: /

10.4. Conditions/Circumstances to avoid: /

10.5. Incompatible materials

Materials to avoid: Strong bases, strong acids and strong oxidising agents

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10.6. Hazardous decomposition products

On combustion or on thermal decomposition (pyrolysis) releases: (Carbon oxides (CO + CO₂)).

Section 11 : TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity	LD50 > 5 000 mg/kg - rat , female No mortality observed at this dose. Information given is based on data obtained from similar substances. Unpublished reports
Acute inhalation toxicity	LC50 - 4h: > 11 mg/l - rat , male and female No mortality observed at this dose. Information given is based on data obtained from similar substances. Unpublished reports
Acute dermal toxicity	LD50 > 2 000 mg/kg – rat No mortality observed at this dose. Unpublished internal reports
Acute toxicity (other routes of administration)	no data available
Aspiration toxicity	no data available
Skin irritation	rabbit No skin irritation. Unpublished internal reports.
Eye irritation	Slightly irritating to rabbits on ocular application. Unpublished internal reports.
Sensitization	Local lymph node assay – mouse. Not sensitising. Unpublished internal reports.
Repeated dose toxicity	Oral 14 Days – rat NOEL: 980 mg/kg Information given is based on data obtained from similar substances. Unpublished reports Dermal 14 Days – rat NOEL: 1 000 mg/kg Information given is based on data obtained from similar substances. Unpublished reports Inhalation 90 Days – rat NOEC: 0.05 mg/l Data available only for some components. Unpublished reports
Judgement STOT single exposure	Toxicology Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.
Judgement STOT repeated exposure	Toxicology Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

CMR assessment

Carcinogenicity	no data available
Genotoxicity in vitro	Product is not considered to be genotoxic Mutagenicity (Salmonella typhimurium - reverse mutation assay) with or without metabolic activation Negative Information given is based on data obtained from similar substances. Unpublished reports Mutagenicity (in vitro mammalian cytogenetic test) Strain: Human lymphocytes with metabolic activation Positive Information given is based on data obtained from similar substances. Unpublished reports Mutagenicity (in vitro mammalian cytogenetic test) Strain: Human lymphocytes without metabolic activation Negative Information given is based on data obtained from similar substances. Unpublished reports
Genotoxicity in vivo	Product is not considered to be genotoxic In vivo micronucleus test – mouse Inhalation Negative Information given is based on data obtained from similar substances. Unpublished reports
Reproductive toxicity	Fertility study 1 generation - rat, for males and females Inhalation NOAEL parent: 1 mg/l No impairment of fertility has been observed No toxicity to reproduction Information given is based on data obtained from similar substances. Unpublished reports
Developmental Toxicity / Teratogenicity	rat Inhalation NOAEL teratogenicity: 1 mg/l NOAEL maternal < 0.16 mg/l No effect observed on development Information given is based on data obtained from similar substances. Published data

STOT

STOT-single exposure	Exposure routes: ingestion, inhalation, skin contact The substance or mixture is not classified as specific target organ toxicant, single exposure according to GHS criteria.
STOT-repeated exposure	The substance or mixture is not classified as specific target organ toxicant, single exposure according to GHS criteria. Dermal 14 days – rat, male and female NOAEL: 1 000 mg/kg Method: OECD test guideline 410 Not considered to cause serious damage to health on repeated exposure Unpublished reports Inhalation 90 Days – rat, male female NOAEC: 0,05 mg/l Method: OECD test guideline 413 Not considered to cause serious damage to health on repeated exposure Unpublished reports
Aspiration toxicity	No aspiration toxicity classification

Section 12 : ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicity effects

Aquatic Compartment (including sediment)

Toxicity to fish	LC50 – 96 h: 18 – 24 mg/l – Pimephales promelas (fathead minnow) Unpublished reports
Toxicity to daphnia and other aquatic invertebrates	EC50 – 48 h: 112 – 150 mg/l Daphnia magna (Water flea) Unpublished reports
Toxicity to aquatic plants	EC50 – 72 h : > 85 mg/l - Pseudokirchneriella subcapitata (green algae) Unpublished internal reports

Ecotoxicity assessment Harmful to aquatic organism

12.2. Persistence and degradability

Biodegradability

Readily biodegradable
Ultimate aerobic biodegradability 97 % - 28 d
Method: OECD Test Guideline 301
Unpublished internal reports

12.3. Bio-accumulative potential

Partition coefficient	n-octanol/water Not potentially bio-accumulable Unpublished reports
Bioconcentration factor (BCF)	no data available

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12.4. Mobility in soil

Mobility

Known distribution to environmental compartments

Ultimate destination of the product: Water structure-activity relationship (SAR)

Ultimate destination of the product: Soil structure-activity relationship (SAR)

Other adverse effects

Environment assessment: Not classified as dangerous for the environment, according to Regulation (EC) N° 1272/2008

12.5. Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating and toxic (PBT)

This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6. Other adverse effects

No data available

Section 13 : DISPOSAL CONSIDERATIONS

Waste treatment methods

<i>Product</i>	Should not be released into the environment. Dispose of in accordance with local regulations.
<i>Measures for waste avoidance</i>	Do not dispose of the product at a rubbish tip.
<i>Reason for waste disposal</i>	Recycle following cleaning. Dispose of contents/container to an approved waste disposal plant.
<i>Advice</i>	Completely empty the packaging prior to decontamination. Carefully drain and then steam clean.
<i>Other data</i>	Dispose of in accordance with local regulations.

Section 14 : TRANSPORT INFORMATION

14.1 UN Number: /

14.2 UN proper shipping name: /

14.3 Transport hazard class(es): /

14.4 Packing group: /

14.5 Environmental hazards: /

Additional information: /

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Section 15 : REGULATORY INFORMATION

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

According to our knowledge, no specific regulatory information

15.2. Chemical safety assessment

Information from the components or the conversion table (annex VII) are/is used for this assessment.

Section 16 : OTHER INFORMATION

H-phrases of components from chapter 3 – Full wording

H225	Highly flammable liquid and vapour
H301	Toxic if swallowed
H311	Toxic in contact with skin
H331	Toxic if inhaled
H370	Causes damage to organs

Glossary

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADNR	European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways (AND)
BCF	Bioconcentration factor
BetrSchV	German Ordinance on Industrial Safety and Health
CMR	Carcinogenic-Mutagenic-toxic for Reproduction
DNEL	Derived no effect level
GLP	Good Laboratory Practice
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
LOAEL	Lowest Observed Adverse Effect Level
LOEL	Lowest Observed Effect Level
NOAEL	No Observed Adverse Effect Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bio-accumulative, Toxic
PNEC	Predicted No Effect Concentration
RID	Convention concerning International Carriage by Rail
TA	Technical Instructions
TRGS	Technical Rules for Hazardous Substances
VCI	German chemical industry association
vPvB	very Persistent, very Bio-accumulative
VOC	Volatile Organic Compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
EC50	half maximal effective concentration

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STOT	Specific Target Organ Toxicity
OEL	Occupational Exposure Limit
PEC	Predicted Effect Concentration
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level
ISO	International Organization for Standardization
DIN	German Institute for Standardization

This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.

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