

SAFETY DATA SHEET (EC 1907/2006)

CERTAIN

VA-No.

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1 / 9**1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**Trade name : CERTAIN
Chemical Name : Alkoxylated alcohol
CAS-No. : 204336-40-3**1.2. Relevant identified uses of the substance or mixture and uses advised against**Relevant applications identified : Industrial Use
Applications which are not advised : None known.**1.3. Details of the supplier of the safety data sheet**Company : Modify bv
Helmkade 4
NL-1901 BM Castricum
The Netherlands
Telephone : +31 (0)251 657613
Telefax : +31 (0)251 607844
E-mail : info@modify.nl**1.4. Emergency telephone number**Emergency information : +31 (0)251 657613 (Phone)
+31 (0)251 607844 (Fax)**2. Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Chronic aquatic toxicity Category 3 H412

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elementshazard statement : H412 - Harmful to aquatic life with long lasting effects.

Precautionary Statement (Prevention) : P273 - Avoid release to the environment.

Precautionary Statement (Disposal) : P501 - Dispose of contents/container in accordance with local regulation.**2.3. Other hazards**

None known

3. Composition/information on ingredients

Alcohol, alkoxylated

3.1. Substances

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3.2. Mixtures

-

4. First aid measures

4.1. Description of first aid measures

- General advice : Remove contaminated clothing.
Inhalation : Ensure supply of fresh air.
Skin contact : In case of contact with skin wash off immediately with soap and water
Eye contact : Flush eye immediately and thoroughly whilst protecting the unhurt eye.
If irritation continues, consult a physician.
Ingestion : In the event of symptoms seek medical advice.

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

- Symptoms : No information is on file to date regarding acute and/or delayed post-exposure symptoms and effects.

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

Treat symptomatically.

5. Fire-fighting measures

5.1. Extinguishing media

- Suitable extinguishing media : foam, carbon dioxide, dry powder, water spray.
Unsuitable extinguishing media : not applicable

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released:
- carbon dioxide, carbon monoxide

5.3. Advice for firefighters

Do not inhale explosion and/or combustion gases

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

6.2. Environmental precautions

Do not allow to enter drains or waterways
Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr, universal binder)
Dispose of absorbed material in accordance with the regulations.

6.4. Reference to other sections

For further information on exposure monitoring and disposal see sections 8 and 13.

7. Handling and storage

7.1. Precautions for safe handling

- Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).
Wear respiratory protection when spraying.

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Hygiene measures : Do not eat, drink or smoke when working.
Wash hands before breaks and after work.
Remove soiled or soaked clothing immediately.

General protective measures : Avoid contact with eyes and skin

7.2. Conditions for safe storage, including any incompatibilities

Prevention of fire and explosion

Information : No special measures required.

Storage

Information : none

Further information on storage conditions : Keep container closed.

German storage class : 10

7.3. Specific end use(s)

No further recommendations.

8. Exposure controls/personal protection

8.1. Control parameters

no data available

DNEL : No DNEL/DMEL values on file.

PNEC : No PNEC values on file.

8.2. Exposure controls

Eye protection : tightly fitting safety glasses

Hand protection : PVC gloves

Body Protection : light protective clothing

Respiratory protection : in case of formation of vapours/aerosols:
Short term: filter apparatus, combination filter A-P2

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : liquid

Form : liquid

Colour : slightly yellow

Odour : specific to the product

Odour Threshold : not measured

pH : not determined

Melting point : not measured

Boiling point : not measured

Flash point : > 100 °C
Method: DIN EN 22719 (DIN 51758)

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Evaporation rate	: not measured
Flammability	: no data available
Upper Explosion/Ignition Limit	: not measured
Lower explosion limit	: not measured
Vapour pressure	: Not measured
Relative vapour density	: not measured
Relative density	: no data available
Solubility	: not measured
Water solubility	: dispersible
Partition coefficient (n-octanol/water)	: not measured
Autoignition temperature	: not measured
Thermal decomposition	: not measured
Viscosity, kinematic	: no data available
Viscosity, dynamic	: ca. 400 mPa·s (25 °C) Method: DIN 53015 (Höppler)
Explosive properties	: not measured
Oxidising properties	: not measured

9.2. Other information

Density	: 0,920 - 1,020 g/cm ³ (25 °C) Method: DIN 51757
Metal corrosion	: not measured
Ignition temperature	: not measured

10. Stability and reactivity

10.1. Reactivity

see section "Possibility of hazardous reactions"

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

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No hazardous reactions with proper storage and handling.

10.4. Conditions to avoid

10.5. Incompatible materials

Unknown

10.6. Hazardous decomposition products

None with proper storage and handling.

11. Toxicological information

11.1. Information on toxicological effects

- Acute toxicity (oral) : LD50
Species: Rat
Dose: > 2.000 mg/kg
Method: OECD Test Guideline 401
- Acute toxicity (inhalation) : no data available
- Acute toxicity (dermal) : no data available
- Irritation/corrosion of the skin : Species: rabbit
Result: non-irritant
Method: OECD 404
- Serious eye damage/ eye irritation : Species: rabbit
Result: slight irritant effect - does not require labelling
Method: OECD 405
- Respiratory/skin sensitization : no data available
- Repeated dose toxicity : no data available
- CMR assessment**
- Carcinogenicity : no data available
- Mutagenicity : no data available
- Teratogenicity : no data available
- Toxicity to reproduction : no data available
- Specific Target Organ Toxicity - Single exposure : no data available
- Specific Target Organ Toxicity - Repeated exposure : no data available
- Aspiration hazard : No Aspiration toxicity classification
- Other information : Due to the composition of the product it cannot be excluded:
Irritant to eyes.
By analogy with a product of similar composition

12. Ecological information

Ecotoxicology Assessment

Acute aquatic toxicity : no data available

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Chronic aquatic toxicity : no data available

12.1. ToxicityAquatic toxicity, fish : Species: zebra fish
Exposure duration: 96 h
LC50: 15,5 mg/lAquatic toxicity, invertebrates : Species: Daphnia magna
Exposure duration: 48 h
EC50: 10 - 100 mg/l
Method: OECD 202Aquatic toxicity, algae / aquatic plants : Species: Desmodesmus subspicatus
Exposure duration: 72 h
EC50: 60,9 mg/l

Species: Desmodesmus subspicatus
Exposure duration: 72 h
EC50: 113 mg/l

Toxicity in microorganisms : no data available

chronic toxicity in fish : no data available

Chronic toxicity in aquatic Invertebrates : no data available

Toxicity in organisms which live in the soil : no data available

Toxicity in terrestrial plants : no data available

Toxicity to Above-Ground Organisms : no data available

12.2. Persistence and degradability

Photodegradation : no data available

Biological degradability : Result: not readily degradable
Method: OECD 301 D

Physico-chemical removability : no data available

Biochemical Oxygen Demand (BOD) : no data available

Chemical Oxygen Demand (COD) : no data available

relation of BOD/COD : no data available

Dissolved organic carbon (DOC) : no data available

Adsorbed organic bound halogens : no data available

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(AOX)

Distribution among environmental compartments : no data available

12.3. Bioaccumulative potential

Bioaccumulation : no data available

12.4. Mobility in soil

Environmental distribution : no data available

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment : No data available

12.6. Other adverse effects

General Information : The product is considered to be a weak water pollutant (German law). Do not allow to enter soil, waterways or waste water canal.

13. Disposal considerations**13.1. Waste treatment methods**

Product : In accordance with local authority regulations, take to special waste incineration plant

Contaminated packaging : If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

14. Transport information**Not dangerous according to transport regulations.**

14.1.	UN number:	--
14.2.	UN proper shipping name:	--
14.3.	Transport hazard class(es):	--
14.4.	Packing group:	--
14.5.	Environmental hazards:	--
14.6.	Special precautions for user:	No

15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National legislation**

Technical instructions on Air Quality : 5.2.5 (no class)

Major Accident Hazard Legislation : ---

Water contaminating class (Germany) : low hazard to waters
Classification acc. to German law

Risk classification according to BetrSichV (Germany) : ---

Other regulations : none

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15.2. Chemical safety assessment

Chemical safety assessment : No chemical safety assessment was carried out for this product.

16. Other information

List of references

Other information : Comply with national laws regulating employee instruction.
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Relevant H phrases from chapter 3

Changes since the last version are highlighted in the margin. This version replaces all previous versions. This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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**Legend**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADNR	European agreement concerning the international carriage of dangerous goods by inland waterways (ADN)
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BetrSichV	German Ordinance on Industrial Safety and Health
c.c.	closed cup
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
ChemG	German Chemicals Act
CMR	carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	half maximal effective concentration
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee	German ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
ISO	International Organization For Standardization
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern
TA	Technical Instructions
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
VCI	German chemical industry association
vPvB	very persistent, very bioaccumulative
VOC	volatile organic compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
WHO	World Health Organization