

Material Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



78084 Ethomeen® C 12

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Revised edition: 13.01.2015

Version: 3

Printed: 25.07.2016

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: Ethomeen® C 12

Article No.: 78084

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:

Emulsifier, wetting agent

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet

Company: Kremer Pigmente GmbH & Co. KG

Address: Hauptstr. 41-47, 88317 Aichstetten, Germany

Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606

Internet: www.kremer-pigmente.de

E-Mail: info@kremer-pigmente.de

Importer: --

1.4. Emergency & contact information

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

2. Hazards Identification

2.1. Classification of the Substance or Mixture

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

*Acute toxicity (oral), hazard category 4
Skin corrosion, hazard category 1C
Acute aquatic toxicity, hazard category 1
Chronic aquatic toxicity, hazard category 1*

H302 Harmful if swallowed.

Cat.: 4

H314 Causes severe skin burns and eye damage.

Cat.: 1B

H410 Very toxic to aquatic life with long lasting effects.

Cat.: 1

Classification according to Directive No. 67/548/EC or No. 1999/45/EC

Harmful (Xn) R22 Harmful if swallowed.

Caustic (C) R34 Causes burns.

Hazardous to the environment (N) R50 Very toxic to aquatic organisms.

Safety Phrases:

Possible Environmental Effects:

See Section 12.

2.2. Label elements

Classification according to Regulation

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(EC) No. 1272/2008 (CLP/GHS)

Hazard designation:



GHS05-2



GHS07



GHS09

Signal word:

Danger

Hazard designation:

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H410	Very toxic to aquatic life with long lasting effects.

Safety designation:

P273	Avoid release to the environment.
P280	Wear protective gloves/ clothing/ eye/ face protection.
P301+P330+P331	If swallowed: Rinse mouth. Do not induce vomiting.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing.
P310	Immediately call a poison center or physician.

Hazardous components for labelling:

Bis(2-Hydroxyethyl) cocos alkyamine, CAS No. 61791-31-9

2. \$. *ther +a, ards

No information available.

3. Composition/Information on Ingredients

\$. 1. Substance

This product is a substance: see details under 3.2.

\$. 2. Mixture

Chemical Characterization:

Hazardous Ingredients:

Bis(2-Hydroxyethyl) cocos alkyamine (C,N; R22-34-50; H302-314-400-410); REACH No. 01-2119957489-17	100 %	CAS-Nr: 61791-31-9 EINECS-Nr: 263-163-9 EC-Nr:
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Additional information:

SVHC (Candidate List of Substances of very High Concern): does not contain any substances as listed in Annex XIV of the REACH

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Regulation 1907/2006/EC.

4. First Aid Measures

1. Description of the First Aid Measures

General information:

Immediately get medical help.

Take person away from hazardous area.

Show this safety data sheet to the doctor in attendance.

Serious burns may even occur several hours after removing the product.

After inhalation:

Consult physician immediately.

Supply fresh air.

After skin contact:

Remove contaminated clothing and shoes immediately.

Wash skin with 0.5 % acetic acid and then with soap and water.

Immediate medical treatment necessary. Caustic burns can cause wounds which do not easily heal.

Can irritate skin: if untreated may be prolonged and can have serious consequences (z.B. necrosis). This may be prevented by early treatment with medium corticosteroids.

After eye contact:

Immediately rinse eyes with 0.5 acetic acid for several minutes and then with water as long as possible. Eyelids should be held away from the eyeball to ensure thorough rinsing.

Consult a physician immediately. Continue rinsing.

Remove contact lens.

Protect unharmed eye.

After ingestion:

Rinse mouth with water and give plenty of water to drink. Consult a physician. Never give anything by mouth to an unconscious person.

Do NOT induce vomiting. Risk of chemical burns in mouth and throat.

2. Most important symptoms and effects/ both acute and Delayed

Symptoms:

No further information available.

Effects:

No further information available.

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

Treatment:

No information available.

5. Fire-Fighting Measures

1. Extinguishing Media

Suitable extinguishing media:

Use extinguishing media for surrounding fire.

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Unsuitable extinguishing media:

Water with full jet.

1. 2. Special hazards arising from the Substance or Mixture

Special hazards:

Treat like an oil fire.

Do not use a solid water stream as it may scatter and spread fire.

Do not let extinguishing water enter the sewerage system or water courses.

In case of fire: formation of carbon and nitrogen oxides.

1. 3. Protective equipment for firefighters

Protective equipment:

Wear self-contained respiratory protective device and protective clothing.

Further information:

Collect contaminated extinguishing water and debris separately; avoid contamination of sewage system.

Contaminated extinguishing water and debris should be disposed of according to local regulations.

6. Accidental Release Measures

3. 1. Personal Precautions/ Protective equipment and Emergency Procedures

Personal precautions:

Wear protective clothing.

Ensure adequate ventilation.

3. 2. Environmental Precautions

Environmental precautions:

Prevent contamination of soils, drains and surface water.

Contact local authorities if product pollutes soil or vegetation.

3. 3. Methods and Material for Containment and Clean-up

Methods and material:

Contain with absorbent material (e.g. sand, acid binder, universal binder, sawdust) and collect in appropriate containers for disposal.

3. 4. Reference to other Sections

Protective clothing, see Section 8.

7. Handling and Storage

4. 1. Precautions for Safe Handling

Instructions on safe handling:

Wear adequate protective clothing (see para. 8).

Hygienic measures:

Do not eat or drink during work. Do not smoke.

4. 2. Conditions for Safe Storage/ including any Incompatibilities

Storage conditions:

Store product in a cool, dry and well ventilated area.

Protect product from direct sunlight.

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Requirements for storage areas and containers:

No special measures necessary.

Information on fire and explosion protection:

Avoid increased temperature.

To not store together with copper, aluminium, zinc and their alloys.

Storage class (VCI):

8 A: combustible corrosive substances

Further Information:

No decomposition if used and stored according to specifications.

4. \$. *Specific Use s#*

Further information:

No information available.

8. Exposure Controls/Personal Protection

5. 1. *Parameters to be controlled*

Parameters to be controlled (DE):

none known

Parameters to be controlled:

Derived No-Effect Level (DNEL):

Bis(2-Hydroxyethyl) cocos alkyamine:

2.112 mg/m³ (worker, inhalation, long-term exposition - systemic)

0.3 mg/m³ bw/d (worker, skin contact, long-term exposition - systemic)

0.745 mg/m³ (consumer, inhalation, long-term exposition - systemic)

0.214 mg/kg bw/d (consumer, skin contact/swallowing, long-term exposition - systemic)

Predicted No-Effect Concentration (PNEC):

Bis(2-Hydroxyethyl) cocos alkyamine:

Fresh water: 0.000183 mg/l

Seawater: 0.000018 mg/l

Fresh water sediment: 1.692 mg/kg

Seawater sediment: 0.1692 mg/kg

Sporadic release: 0.001 mg/l

Soil: 5 mg/kg

Secondary poisoning: 2 mg/kg

Additional Information:

5. 2. *Exposure controls*

Technical protective measures:

Provide adequate ventilation/exhaust system.

Facilities storing or utilizing this material should be equipped with an eyewash and shower facility.

Keep solutions with 0.5 % acetic acid ready to use.

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Personal Protection

General protective measures:

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work. Avoid contact with skin, eyes and clothing. Wash contaminated clothes before reuse.

Respiratory protection:

Respiratory equipment required in case of insufficient ventilation, filter combination type A-P2.

Hand protection:

Protective gloves (EN 374)

Protective glove material:

Butyl or nitrile rubber.

Eye protection:

Tightly fitting safety goggles (EN 166).

Body protection:

Protective clothing, chemical resistant.

Environmental precautions:

Prevent contamination of open water ways and sewage system. Avoid contamination of ground water.

9. Physical and Chemical Properties

7. 1. Information on basic Physical and Chemical Properties

<i>Form:</i>	<i>liquid</i>
<i>Color:</i>	<i>bright yellow</i>
<i>Odor:</i>	<i>ammonium-like</i>
<i>Odor threshold:</i>	<i>No information available.</i>
<i>pH-Value:</i>	<i>9 - 11 (1% solution)</i>
<i>Melting temperature:</i>	<i>6 - 8°C</i>
<i>Boiling temperature:</i>	<i>> 200°C</i>
<i>Flash point:</i>	<i>193°C</i>
<i>Evaporation rate:</i>	<i>No information available.</i>
<i>Flammability (solid, gas):</i>	<i>> 150°C</i>
<i>Upper explosion limit:</i>	<i>no information available</i>
<i>Lower explosion limit:</i>	<i>no information available</i>
<i>Vapor pressure:</i>	<i>< 0.1 hPa (20°C)</i>
<i>Vapor density:</i>	

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No information available.

Density: 0.91 g/m³ (20°C)
Solubility in water: dispersible
Coefficient of variation (n-Octanol/Water): 0.7 logPOW (25°C)
Auto-ignition temperature: 270°C (1013.25 hPa)

Decomposition temperature:
No data available.

Viscosity, dynamic: 135 mPa.s (20°C)

Explosive properties:
not explosive

Oxidizing properties:
not oxidizing

Bulk density:
not applicable

7.2. -urther Infor " ation

Solubility in solvents:
Viscosity, kinematic
ca. 148 mm²/s

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

No further information.

10. Stability and Reactivity

18.1. Reactivity
Stable if used according to specifications.

18.2. (he " ical Stability
Stable if used according to specifications.

18.\$ Possibility of +a,ardous Reactions
None if used according to specifications.

18.' (onditions to .void
Conditions to avoid:
Avoid direct sunlight and heat.

Thermal decomposition:
No data available.

18.1. l " co " patible Materials
Reacts with copper, aluminium, zinc and their alloys.

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18.3. +a,ardous Deco " position Products

None known.

18.4. -urther Infor " ation

11. Toxicological Information

11. 1. Infor " ation on Toxicological Effects

Acute Toxicity

LD50, oral: 1300 mg/kg (rat)

LD50, dermal: No information available.

LC50, inhalation: No information available.

Primary effects

Irritant effect on skin:

Caustic, sub-category 1C (rabbit): reactions occur after an exposure between 1-4 hours and can be observed for a period of 14 days (OECD 404).

Burns can occur even several hours after removing the produkt. Symptoms can occur delayed.

Causes severe burns.

Irritant effect on eyes:

Risk of serious damage to eye (rabbit; OECD 405)

Vapors may cause irritation and burning of eyes.

Causes severe burns.

Inhalation:

Vapors can irritation of the mucous membrane.

Ingestion:

Harmful if swallowed.

Causes burns.

Sensitization:

No information available.

Mutagenicity:

No data available.

Reproductive toxicity:

No information available.

Cancerogenity:

No data available.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

No data available.

Additional toxicological information:

Inhalation of fumes/vapors can cause irritation of the respiratory next page: 9

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tract.

Inhalation: thermal decomposition can cause the release of irritating gases or vapors.

12. Ecological Information

12.1. Aquatic Toxicity

Fish toxicity:

LC50: 0.1 mg/l (96h, Danio rerio; OECD 203)

Daphnia toxicity:

EC50: 0.01 - 0.1 mg/l (48h, Daphnia magna; OECD 211)

Chronic toxicity: EC10: 0.01 - 0.1 mg/l (21d, Daphnia magna; OECD 211)

Bacteria toxicity:

no information available

Algae toxicity:

EC50: 0.01 - 0.1 mg/l (72h, Pseudokirchneriella subcapitata; OECD 201)

EC10: 0.0001 - 0.001 mg/l (72h, Pseudokirchneriella subcapitata; OECD 201)

M-Factor: 10

12.2. Persistence and Degradability

> 60 %; readily biodegradable (28d; OECD 301D)

12.3. Bioaccumulation

Bioconcentration factor (BCF): < 500

Bioaccumulation is not to be expected.

12.4. Mobility

No information available.

12.5. Results of P609 und vPvP Assessment

On the basis of available data, the product does not contain and PBT or vPvB in percentage greater than 0.1 %.

12.6. Other adverse effects

Water hazard class:

2 (German Regulation) (Assessment by list): hazardous.

Behaviour in sewage systems:

Further ecological effects:

AOX Value:

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

Dispose of according to official national and local regulations.

European Waste Code (EWC):

Uncleaned packaging:

Packaging may be disposed of in the same manner as the

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product.

Waste Code No.:

14. Transport Information

- 1'. 1. U & u " ber
ADR, IMDG, IATA 2735
- 1'. 2. U & Proper Shipping & a " e
ADR/RID: AMINE, FLÜSSIG, ÄTZEND, N.A.G. (Alkylaminethoxyalat)
IMDG/IATA: AMINES, LIQUID, CORROSIVE, N.O.S. (Alkylamin ethoxyalate)
- 1'. \$. Oransport +a, ard (lasses
ADR Class: 8
Hazard no.: 8
Classification code: C7
Tunnel no.: E
IMDG Class (sea): 8
Hazard no.: 8
EmS No.: F-A, S-B
IATA Class: 8
Hazard no.: 8
- 1'. '. Pac; aging <roup
ADR/RID: III
IMDG: III
IATA: III
- 1'. 1. %nviron " ental +a, ards
Labelling according 5.2.1.6.3 IMDG: fish and tree
Labelling according 5.2.1.8 ADR/RID: fish and tree
Labelled with "P" according 2.10 IMDG: yes
- 1'. 3. Special Precautions for User
not applicable
- 1'. 4. Oransportation in 6ul; according to . nnex II of M . RP *) 4\$!45 and I6 (9 (ode
not evaluated

1'. 5. -urther Infor " ation

15. Regulatory Information

11. 1. Safety/ +ealth and %nviron " ental Regulations!)egislation specific for the Substance or Mixture
Water hazard class: 2, hazardous for water (German Regulation)
Local regulations on chemical accidents: Environmentally hazardous (9a)
Amount 1: 100 t; Amount 2: 200 t

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Employment restrictions:

Restriction and prohibition of application:

Technical instructions on air quality:

Not applicable.

11. 2. (he " ical Safety . sses " ent

A Chemical Safety Assessment has been carried out for this product.

11. \$. -urther Infor " ation

Listed in:

EINECS (269-056-3), TSCA (US), AICS (AUS), DSL (CA), ENCS/ISHL (JP), KECI (KR), PICCS (PH), NZIoC (NZ), INV (CH), IECSC (CN), INV (MY), INV (TR), INV (TW)

This product is a substance as defined by the Chemicals Act. EC. REACH, Annex XIV, Candidate List of Substances of very High Concern (SVHC): not regulated / not applicable

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.