

according to 29 CFR 1910.1200(g)

ACMOS 103-30

ACMOS CHEMIE KG

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Print date: 21.07.2015

1. Identification

Product identifier ACMOS 103-30

Details of the supplier of the safety data sheet

Emergency phone number:	1-800-424-9300 (CHEMTREC - Day or Night Within the US/ Language(s) of Telephone Service: GB	A and Canada)
e-mail: Internet:	reinhard@acmosinc.com www.acmosinc.com	
e mail:		(mobile)
Contact person:	Mr. Reinhard E. Zuber	Telephone: 001-410-736-9922
e-mail:	acmosinc@acmosinc.com	
Telephone:	001-410-296-5994	Telefax: 001-410-296-5998
Place:	USA-MD 21093 Lutherville	
Street:	1407 York Road, Suite 305	
Company name:	ACMOS Inc.	
Supplier		
Energency prone number.	Giftinformationszentrum Nord, Universität Göttingen, 24 h fr Language(s) of Telephone Service: D, GB	, ,
Emergency phone number:	+49 (0)551-19240 (Emergency information service / official a	
Responsible Department:	Laboratory (Division: Occupational- / Product security) - see	under section 16
Internet:	www.acmos.com	
e-mail: Contact person:	acmos@acmos.com Mr. Dryhaus	
Telephone:	D-28010 Bremen +49 (0)421-5189-0	Telefax: +49 (0)421-511415
Post-office box:	10 10 69	
Place:	D-28199 Bremen	
Street:	Industriestrasse 49	
Company name:	ACMOS CHEMIE KG	
Manufacturer		

2. Hazard(s) identification

Classification of the chemical

Hazard categories:

Serious eye damage/eye irritation: Eye Irrit. 2A Specific target organ toxicity repeated or prolonged exposure: STOT RE 2 Hazard Statements: Causes serious eye irritation May cause damage to organs through prolonged or repeated exposure

Label elements

Signal word: Pictograms:





Hazard statements

Causes serious eye irritation

May cause damage to organs through prolonged or repeated exposure

Precautionary statements

Do not breathe dust/fume/gas/mist/vapors/spray.

Wear protective gloves/eye protection.

If in eyes: 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.

Get medical advice/attention if you feel unwell.

Additional advice on labelling

Labelling according to the revised Hazard Communication Standard (HCS 2012) according to 29 CFR 1910.1200(f)



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Hazards not otherwise classified Adverse physicochemical effects:

See section 9 for physical and chemical properties. This material is combustible, but will not ignite readily.

Adverse human health effects and symptoms: See section 11 for toxicological information.

Adverse environmental effects: See section 12 for environmental information.

Other adverse effects: Special danger of slipping by leaking/spilling product.

Results of PBT-/vPvB-assesment: See under section 12.5 - Results of PBT and vPvB assessment.

3. Composition/information on ingredients

<u>Mixtures</u>

Chemical characterization

Solution of active ingredients in mineral oil

Hazardous components

CAS No	Components	Quantity	
90640-32-7	amines, C16-18-alkyl	2.99 %	
Further Information			

none

none

4. First-aid measures

Description of first aid measures

General information

Remove affected person from the danger area and lay down.

Take off immediately all contaminated clothing and wash it before reuse.

Put victim at rest, cover with a blanket and keep warm.

Do not leave affected person unattended.

If a person vomits when lying on his back, place him in the recovery position.

If breathing is irregular or stopped, administer artificial respiration.

If unconscious place in recovery position and seek medical advice.

Never give anything by mouth to an unconscious person or a person with cramps.

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Self-protection of the first aider:

Wear personal protection equipment (refer to section 8). First Aid.

Notes for the doctor:

No special measures are necessary.

After inhalation

Remove victim out of the danger area. Provide fresh air.

In case of respiratory tract irritation, consult a physician.

After contact with skin

Wash immediately with:

Water and soap

Rub greasy ointment into the skin.

Do not wash with:

Solvents/Thinner

In case of skin irritation, consult a physician.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart



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and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

Protect uninjured eye.

After ingestion

Do NOT induce vomiting. Give nothing to eat or drink.

Never give anything by mouth to an unconscious person or a person with cramps.

Call a physician immediately.

Most important symptoms and effects, both acute and delayed

The following symptoms may occur:

See under section 11.1 - Information on toxicological effects .

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Water mist Extinguishing powder (ABC-powder) Foam Carbon dioxide (CO2)

Fire class (DIN EN 2): B (Fires of liquids or liquid turning substances).

Unsuitable extinguishing media

Full water jet Water spray jet

Specific hazards arising from the chemical

In principle, fire gasses of organic materials have to be classified as toxic to the respiratory system. Burning produces heavy smoke.

Hazardous combustion products: Carbon monoxide. carbon dioxide (CO2) Hydrocarbons Nitrogen oxides (NOx) Pyrolysis products, toxic

Special protective equipment and precautions for fire-fighters

Usual measures of preventive and averting fire protection.

Co-ordinate fire-fighting measures to the fire surroundings.

Do not inhale explosion and combustion gases.

Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.

Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen.

Move undamaged containers from immediate hazard area if it can be done safely.

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing. DIN-/EN-Norms: EN 469 Firefighting protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothes.

Do not breathe vapour/aerosol.

Prevent further leakage or spillage if safe to do so.

Provide adequate ventilation.

Special danger of slipping by leaking/spilling product.



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Filtered air may be re-circulated into the workroom.		
		⊢iltered air may be re-circulated into the workroom.



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Always close containers tightly after the removal of product.	
Use long handled brushes and rollers where possible.	
Advice on protection against fire and explosion	
Measures to prevent fire:	
The product is: Combustible	
Usual measures for fire prevention.	
Fire-fighting equipment on the basis of class B.	
Further information on handling	
Environmental precautions:	
Shafts and sewers must be protected from entry of the product.	
Transfer wash-downs in sealed containers.	
Provide for retaining containers, eg. floor pan without outflow.	
Advices on general occupational hygiene:	
Wear personal protection equipment (refer to section 8).	
Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500).
General industrial hygiene practice.	
Handle in accordance with good industrial hygiene and safety practice.	
Working places should be designed to allow cleaning at any time.	
Floors, walls and other surfaces in the hazard area must be cleaned regularly.	
Clean spray booth and exhaust hood completely with every product change.	
When using do not eat, drink, smoke, sniff.	
Thorough skin-cleansing after handling the product.	
Used working clothes should not be worn outside the work area.	
Conditions for safe storage, including any incompatibilities	
Requirements for storage rooms and vessels	
Suitable floor material:	
Floors should be impervious, resistant to liquids and easy to clean.	
Protect against:	
Heat	
Cold	
Performanded starses temperature: $\pm 10 \pm 20$ °C	
Recommended storage temperature: +10 +30 °C	
Keep away from:	
Food and feedingstuffs	
Packaging materials:	
Suitable container/equipment material:	
Keep/Store only in original container.	
Unsuitable container/equipment material:	
See under section 8.2 - Hand protection.	
Advice on storage compatibility	
Do not store together with: Storage class:	
1 (Explosive hazardous substances)	
6.2 (Infectious substances)	
7 (Radioactive substances)	
Further information on storage conditions	
Technical measures and storage conditions:	
The valid water and zoning ordinances must be observed.	
Keep in a cool, well-ventilated place.	
Keep container tightly closed.	
Protect containers against damage.	
Ensure adequate ventilation of the storage area.	
Do not store outside.	
See also instuctions on the label.	
8. Exposure controls/personal protection	
Control parameters	



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Exposure limits

CAS No.	Substance	ppm	mg/m³	f/cc	Category	Origin
8012-95-1	Oil mist (mineral)	-	5		TWA (8 h)	REL
8012-95-1	Oil mist, mineral	-	5		TWA (8 h)	PEL

Additional advice on limit values

National Institute for Occupational Safety and Health - NIOSH (http://cdc.gov/niosh/pel88/pelstart.html) / Occupational Safety and Health Administration - Department of Labour

(http://osha.gov/pls/oshaweb/owasrch.search_form?p_doc_type=SATNDARSp_toc_level=0) Source of law:

Recommended monitoring procedures:

Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents (BS EN 14042):

Room air monitoring

Exposure limits at intended use: See under section 8.1 - Occupational exposure limit values.

DNEL-/PNEC-values:

Further information: see exposure scenarios attached to this safety data sheet.

Risk management measures according to used control banding approach: Control banding for chemicals according to the ILO CHEMICAL CONTROL TOOLKIT (ICCT): ICCT-Guidelines and Control Guidance Sheets (http://www.ilo.org/legacy/english/protection/safework/ctrl banding/toolkit/main guide.pdf)

Used model:

Consider appropriate model solutions according to good engineering practices while designing the work process if available.

Exposure controls





Appropriate engineering controls

Substance/mixture related measures to prevent exposure during identified uses:

Technical measures to prevent exposure:

Design of appropriate work processes and engineering controls and the use of adequate materials (working appliance according to the state of the art, working appliance for prevention of skin contact).

Organisational measures to prevent exposure:

Execution of collective protection measures at source and appropriate organisational measures (local exhaust ventilation, ventilation by technical means, general ventilation, measures on averting a danger at breakdowns / at emergencies / after accidents, first aid measures, manner related measures: operating instruction / instruction of employees).

Structural measures to prevent exposure:

Execution of individual and personnel protection measures (personal protective equipment - PPE).

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Technical measures and the application of suitable work processes have priority over personal protection equipment.

References for design of technical equipment: See under section 7.1 - Precautions for safe handling.

Summary of the risk management measures for exposure scenario:



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Use only the following product amount per time unit: No information available. Minimum room-width and room-height for handling/application: No information available Minimum room ventilation rate for handling/application (air changes per hour): No information available. Individual protection measures, such as personal protective equipment Eye/face protection Suitable eye protection: Eye glasses with side protection () Recommended eye protection articles: UVEX I-VO / UVEX I-3 / UVEX SUPER OTG Or comparable articles from other companies. Hand protection Skin protection: Preventive skin protection .: Draw up skin protection programme. Before starting work, apply solvent-resistant skincare preparations. e.g. sansibal® / sansibon®, dualin® (PETER GREVEN PHYSIODERM) Wash hands before breaks and after work. e.g. ecosan®, topscrub® soft / topscrub® extra / topscrub® nature (PETER GREVEN PHYSIODERM) After cleaning apply high-fat content skin care cream. e.g. physioderm® creme, cura soft® / cUrea soft (PETER GREVEN PHYSIODERM) Apply skin care products after work. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control diaits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Decrease wearing protection gloves to an inevitable degree to avoid skin rash. Technical and organizational protective actions have to be preferred. Breakthrough times and swelling properties of the material must be taken into consideration. Check leak tightness/impermeability prior to use. Wear cotton undermitten if possible. Change preventive gloves once by hour or use special skin-protective preparations for protective gloves carrier, e.g. physioderm® proGlove (PETER GREVEN PHYSIODERM) Take recovery periods for skin regeneration. Do not wear gloves near rotary machines and tools. Dispose preventive gloves after defect or expiry of wearing time. Replace when worn. In the case of wanting to use the gloves again, clean them before taking off and air them well. Wearing time with permanent contact: Suitable gloves type: Gloves with long cuffs Recommended glove articles: Suitable materials at long term, direct contact (Recommended: Preventive index 6, accordingly > 480 min. permeation time): Nitrile rubber / NBR (KCL-CAMATRIL VELOURS® - Art. No. 730) - Layer thickness : 0,4 mm Or comparable articles from other companies. Unsuitable material: Butyl caoutchouc (butyl rubber) NR (natural rubber, natural latex) Wearing time with occasional contact (splashes): Suitable gloves type: Disposable gloves Recommended glove articles: Suitable materials at short term contact or splash (Recommended: Preventive index 3, accordingly > 60 min. permeation time); Disposable gloves of special nitrile rubber / NBR (KCL-DERMATRIL® P - Art. No. 743) - Layer thickness : 0,2 mm



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Or comparable articles from other companies.

The statements are based on self-tests, literary reference and information of glove manufacturers or have been derived from similar substances by analogy.

Source: CHEMIKALIEN-MANAGER - KCL-software for hand protection.

It has to be noticed, that daily time of use of chemical protective gloves may be quite shorter in practice because of many factors of influence (e.g. thermal and mechanical stress as well as special conditions on the floor) than the permeation time determined in accordance to EN 374.

The respective permeation time doubles/halvens at about 1,5 times larger/lower layer thickness.

Declared permeation times are not carried out under practical conditions. Therefore a maximum wearing time up to 50 % of breakthrough time is recommended.

They relate to the pure solvent as mean component.

Barrier creams are not substitutes for body protection.

Skin protection

Suitable protective clothing:

Overall, Natural fibres (e.g. cotton) ()

Chemical resistant safety shoes with conductible sole ()

Wash contaminated clothing prior to re-use. Used working clothes should not be worn outside the work area. Street clothing should be stored separately from work clothing.

Thermal hazards:

No thermal hazards during use of this product.

Respiratory protection

Usually no personal respirative protection necessary.

Environmental exposure controls

Environmental exposure controls: Technical measures to prevent exposure: Discharge exhaust air only with suitable seperators to atmosphere. Organisational measures to prevent exposure: Should not be released into the environment. Structural measures to prevent exposure:

Use the following recovery and/or abatement technique for cleaning waste gases: none

Further information see under section 6.2 - Environmental precautions.

9. Physical and chemical properties

Information on basic physical and chemical properties

mormation on pasic physical and chemical pro	<u>per lies</u>	
Physical state:	paste	
Color:	light yellow	
Odor:	characteristic	
		Test method
pH-Value:	not applicable	
Changes in the physical state		
Melting point/freezing point:	not determined	
Initial boiling point and boiling range:	> 300 °C	literature value
Sublimation point:	not determined	
Softening point:	> 38 °C	ASTM D 4359
Pour point:	not determined	
Flash point:	> 100 °C	EN ISO 2719
Flammability		
Gas:	not applicable (solid)	
Explosive properties		
not relevant		



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			-
Lower explosion limits:	not releva	nt	
Upper explosion limits:	not releva	nt	
Ignition temperature:	> 200	C literature value	
Auto-ignition temperature			
Solid:	Not pyrophor	С.	
Gas:	Not pyrophor		
Decomposition temperature:	not determin		
Oxidizing properties			
not relevant			
Vapor pressure:	< 1 b	Pa literature value	
(at 20 °C)	\$ 1 10		
Vapor pressure:	< 6 h	Pa literature value	
(at 50 °C)			
Density (at 20 °C):	0,9 g/c	n ³ DIN 51757	
Bulk density:	not determin		
Water solubility:		/L literature value	
(at 20 °C)			
Solubility in other solvents			
miscible with most organic solvents			
Partition coefficient:	not applicable (Mixture	s)	
Viscosity / dynamic:	not applical		
Viscosity / kinematic:	not applicat		
(at 40 °C)			
Flow time:	> 100 s (3 m	n) 3 DIN EN ISO 2431	
(at 23 °C)		,	
Vapour density:	not determin	ed	
Evaporation rate:	not applicat	le	
Solvent separation test:	not applicable		
Solvent content:	not determined		
Other information			
Solid content:	not determined		
	not determined		
Odour threshold: No data available			
Conductivity (ASTM D 2624): No data available			
Surface tension: No data available			
Fat solubility (g/L): No data available			
Calculated oxidation potential of the mixture (OI	P): not relevant		
	,		
Substance group relevant properties:			
Explosives			
not applicable			
Flammable gases			
not applicable (solid)			
Flammable aerosols			
not applicable (solid)			
Oxidising gases			
Not oxidising. Gases under pressure			
not applicable (solid)			
Flammable liquids			
not applicable (solid)			
Flammable solids			
not applicable			
Self-reactive substances and mixtures			
not applicable			
Pyrophoric liquids			
Not pyrophoric.			
Pyrophoric solids			



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Not pyrophoric. self-heating substances and mixtures
not applicable
Substances and mixtures which, in contact with water, emit flammable gases
not applicable
Oxidising liquids
Not oxidising.
Oxidising gases
Not oxidising.
Organic peroxides
not applicable
Corrosive to metals.
Not corrosive to metals.

10. Stability and reactivity

Reactivity

The product is chemically stable under recommended conditions of storage, use and temperature.

Chemical stability Stability:

The product is chemically stable under recommended conditions of storage, use and temperature.

Will not occur

Stable

Possibility of hazardous reactions

Hazardous reactions:

No hazardous reaction when handled and stored according to provisions.

Conditions to avoid

Further information see under section 7.2 - Conditions for safe storage, including any incompatibilities. Further information see under section 10.5 - Incompatible materials.

Incompatible materials

Violent reaction with: Oxidising agent, strong Further information see under section 7.1 - Precautions for safe handling.

Hazardous decomposition products

Does not decompose when used for intended uses. No known hazardous decomposition products. Under fire conditions: See under section 5.2 - Special hazards arising from the substance or mixture.

11. Toxicological information

Information on toxicological effects

Route(s) of Entry Inhalation : X Skin : X Ingestion : X

Toxicocinetics, metabolism and distribution

There are no data available on the preparation/mixture itself. The product has not been tested.

Information on likely routes of exposure /

Symptoms related to the physical, chemical and toxicological characteristics: See under section 4.2 - Most important symptoms and effects, both acute and delayed.

Exposure route: In case of ingestion: Ingestion causes nausea, weakness and central nervous system effects. Due to the viscosity, this product does not present an aspiration hazard.

In case of skin contact: slightly irritant but not relevant for classification. Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

In case of inhalation: slightly irritant but not relevant for classification.



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May cause respiratory irritation.

In case of eye contact: Irritant. Conjunctival redness.

Delayed and immediate effects as well as chronic effects from short and long-term exposure: Not relevant

Interactive effects: Not relevant

Absence of specific data:

No data is available on the product itself. Description of possible hazardous to health effects is based on experience and/or toxicological characteristics of several components.

However, some datas are not complete regarding particular main components. Nevertheless according to the experience of the manufacturer there are no other hazards expected then those which are already mentioned on the label.

Mixture versus substance information:

Not relevant

Acute toxicity

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

CAS No	Components				
	Exposure routes	Method	Dose	Species	Source
90640-32-7	amines, C16-18-alkyl				
	oral	LD50	> 2000 mg/kg	Rat	Supplier
	dermal	LD50	> 2000 mg/kg	Rat	ECHA

Irritation and corrosivity

Causes serious eye irritation

Sensitizing effects

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

Specific target organ toxicity (STOT) - single exposure

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

Severe effects after repeated or prolonged exposure

May cause damage to organs through prolonged or repeated exposure (amines, C16-18-alkyl)

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.		
Carcinogenicity (NTP):	None of the ingredients is listed.	
Carcinogenicity (IARC):	None of the ingredients is listed.	
Carcinogenicity (OSHA):	None of the ingredients is listed.	

Aspiration hazard

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

12. Ecological information

Ecotoxicity

Aquatic toxicity:

Acute (short-term) fish toxicity:

There are no data available on the preparation/mixture itself. The product has not been tested. Acute (short-term) toxicity to crustacea:

There are no data available on the preparation/mixture itself. The product has not been tested. Acute (short-term) toxicity to aquatic algae and cyanobacteria:

There are no data available on the preparation/mixture itself. The product has not been tested.

Chronic (long-term) toxicity to crustacea:

There are no data available on the preparation/mixture itself. The product has not been tested. Chronic (long-term) fish toxicity:

There are no data available on the preparation/mixture itself. The product has not been tested.

Toxicity to other aquatic plants/organisms:

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No data available (Substances/ingredient)

Terrestrial toxicity:

Acute and subchronic bird toxicity: No data available (Substances/ingredient)

Bird reproduction toxicity: No data available (Substances/ingredient)

Acute earthworm toxicity:

No data available (Substances/ingredient) Chronical earthworm toxicity (reproduction):

No data available (Substances/ingredient)

Useful insect toxicity:

No data available (Substances/ingredient) Acute plant toxicity:

No data available (Substances/ingredient)

Chronic plant toxicity:

No data available (Substances/ingredient)

Toxicity to soil macroorganisms except of arthropods:

No data available (Substances/ingredient)

Effects on soil microorganisms:

No data available (Substances/ingredient)

Behaviour in waste water treatment plants:

Due to its low solubility in water the product is almost completely mechanically separated in biological sewage plants.

Persistence and degradability

Abiotic degradation:

Physicochemical elimination: Oxidation: not applicable (Mixtures) Hydrolysis: not applicable (Mixtures) Photochemical elimination: photolysis: not applicable (Mixtures) Ozonolysis:

not applicable (Mixtures)

Biodegradation:

not applicable (Mixtures)

Bioaccumulative potential

not applicable (Mixtures)

Mobility in soil

Surface tension: See under section 9.1 - Information on basic physical and chemical properties.

Distribution:

Water-air (volatility rate, Henry-constant): not applicable (Mixtures) Soil-Water (Adsorption coefficient): not applicable (Mixtures) Soil-Air (volatility rate): not applicable (Mixtures)

Other adverse effects

Ozone depletion potential (ODP): No data available (Substances/ingredient) Photochemical ozone creation potential (POCP): No data available (Substances/ingredient) Global warming potential (GWP): No data available (Substances/ingredient) Endocrine disrupting potential: No data available



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AOX: Product does not contain any organic halogens.

13. Disposal considerations

Waste treatment methods

Advice on disposal

Waste treatment options: Send to a hazardous waste incinerator facility under observation of official regulations.

Dispose of waste according to applicable legislation.

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Properties of waste which render it hazardous:

Irritant.

Ecotoxic

Consult the appropriate local waste disposal expert about waste disposal.

For recycling, contact recycling exchanges.

May not be disposed or deposited together with domestic garbage.

Do not mix with other wastes.

Do not flush into surface water or sanitary sewer system.

Do not dispose of waste into sewer.

Before discharge in public drains (e.g. residues of washing- and rinsing liquids) please observe the relevant regulations. In case of further questions please contact your waste- or environmental representative or the responsible authority.

Clean IBCs or drums at approved facility only.

The waste producer is resposible for correct coding and designation of his wastes.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

List of proposed waste codes/waste designations in accordance with EWC:

Contaminated packaging

Other disposal recommendations:

Contaminated packages must be completely emptied and can be re-used following proper cleaning.

Cleaning by recycling company.

Recommended cleansing agent:

Clean with detergents. Avoid solvent cleaners.

Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled. Packing which cannot be properly cleaned must be disposed of. The conditions of the regional reconditioning companies have to be observed.

14. Transport information

US DOT 49 CFR 172.101

Proper shipping name:	Not classified as dangerous in the meaning of transport regulations.
Marine transport (IMDG)	
<u>UN number:</u>	UN3077
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Alkyl amines)
Transport hazard class(es):	9
Packing group:	III
Hazard label:	9
Marine pollutant:	Ρ
Limited quantity:	5 kg
EmS:	F-A, S-F
Other applicable information Excepted quantity: E1 Exception(s): Not applicable	



according to 29 CFR 1910.1200(g) ACMOS 103-30 Print date: 21.07.2015 Page 14 of 16 Air transport (ICAO) UN3077 UN number: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Alkyl amines) UN proper shipping name: Transport hazard class(es): 9 ш Packing group: Hazard label: 9 Limited quantity Passenger: 30 kg G IATA-packing instructions - Passenger: 956 400 ka IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: 956 IATA-max. quantity - Cargo: 400 ka Other applicable information Excepted quantity: E1 Passenger-LQ: Y956 ERG Kodex: 9L The state variations in chapter 2.8.1 and the operator variations in chapter 2.8.3 for shipping of dangerous goods in limited quantities according to chapter 2.7 of the valid ICAO/IATA Dangerous Goods Regulations have to be observed. The rulings for dangerous goods by air mail according to chapter 2.4 of the valid ICAO/IATA Dangerous Goods Regulations and the conventions of the Universal Postal Union (UPU) as well as the clauses of the relevant National Postal Administation have to be observed. Airmail: prohibited. Environmental hazards ENVIRONMENTALLY HAZARDOUS: yes Danger releasing substance: Alkyl amines Special precautions for user Further information see under section 6, 7, 8. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No bulk transport in accordance with IBC code. It is sold exclusively in traffic legally authorized and appropriate packaging. Other applicable information Postal, express and courier services: Postal service (national): Refer to your National Postal Administation. Express freight / special delivery: Refer to your National Postal Administation. Courier service (national): The general conditions of business of the particular courier service have to be observed. 15. Regulatory information U.S. Regulations National Inventory TSCA All intentional used ingrendients of this product are listed in the TSCA-inventory or correspond to TSCA-exceptions on polymers according to 40 CFR 723. National regulatory information

SARA Section 311/312 Hazards:

amines, C16-18-alkyl (90640-32-7): Immediate (acute) health hazard, Delayed (chronic) health hazard

SARA

None of the ingredients is listed.

State Regulations



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Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposit This product contains no chemicals known to the State of Ca reproductive harm.	· · ·
Additional information	
California - Proposition 65 (http://www.oehha.ca.gov/prop65/ Delaware - Air Quantity Management List: No data available Idaho - Air Pollutants List: No data available Maine - Hazardous Air Pollutants List: No data available Massachusetts - Hazardous Substances: No data available Michigan - Critical Materials: No data available Minnesota - Hazardous Substances: No data available New Jersey - Right-to-Know (RTK) Hazardous Substances; No data available	

Pennsylvania - Hazardous Substances: No data available

Washington - Permissible Exposure Limits for Air Contaminants: No data available

West Virginia - Toxic Air Pollutant List: No data available

Additional information

Other regulations, restrictions and prohibition regulations:

International chemical inventories (Registration status on substances): No data available

EINECS: European Inventory of Existing Commercial Chemical Substances.

ELINCS: European List of Notified Chemical Substances.

amines, C16-18-alkyl, EC-No. : 292-550-5

Other information		
Hazardous Materials Information Lab	el (HMIS)	
Health:	2	
Flammability:	1	
Physical Hazard:	0	
Personal Protection:	В	
NFPA Hazard Ratings		
Health:	2	
Flammability:	1	
Reactivity:	0	—
Unique Hazard:		\sim
Revision date:	21.07.2015	
Revision No:	1,00	
Changes		
This version replaces all forme	issues.	
Changes made in this revision	see section: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14,	, 15, 16.
Abbreviations and acronyms ADR: European Agreement cond EC50: Effective concentration, 5 EC: European community.	erning the International Carriage of Dangerous Goods) percent.	s by Road.

EN: European standard.



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FDA: US-Food and Drug Administration.

ISO: A standard of International Standards Organisation.

LC50: Lethal concentration, 50 percent.

LD50: Lethal Dose, 50 percent.

log Kow (Pow): octanol-water partition coefficient.

PBT: Persistent, bioaccumulabe and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

vPvB: Very persistent and very bioakkumulable.

Other data

Key literature references and sources for data:

The classification corresponds to current EC-lists, but is completed by statements of technical literature and company data.

Other public accessible sources: Hazard Communication Standard (HCS 2012) according to 29 CFR 1910.1200 in the valid version in each case

Further information and practical guides on the internet: European Chemical Substances Information System - ESIS (http://esis.jrc.ec.europa.eu) eChemPortal (http://www.echemportal.org) The access to European Union law - EUR-Lex (http://eur-lex.europa.eu) Environmental Protection Agency - EPA (http://www.epa.gov) / ECOTOX-Database (http://cfpub.epa.gov/ecotox)

Recommended restriction of application:

See under section 1.2 - Uses advised against.

Use this product only for intended purpose in accordance with our product informations. Please refer to our internet website for more information (http://www.acmos.com).

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]: Calculation method.

Training advice:

Yearly briefing and instruction of employees by means of of operation instructions according to article 8 of EC-directive 98/24/EC.

Inquiry office: Laboratory (Division: Occupational- /Product security) Contact person: Mr. Dryhaus (Telephone: +49-421-5189-0, Telefax: +49-421-5189-871) Office hours: Mo - Th from 7.30 - 16.15 h and Fr from 7.30 - 13.30 h. Out of office hours no call diversion.

Disclaimer:

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release The receiver of our product is singulary responsible for adhering to existing laws and regulations. All descriptions are approximate values, they are not specified for construction of specifications. This safety data sheet does not represent any operating instruction according to national chemical regulations. It may be used for creation, but must not replace it. The employer is not relieved from his duties. All technical information to occupational protection are directed predominately to experts first (safety engineers, occupational medicines).