

Version: 3.02 Revision Date 2017/06/22

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

1.1 Product identifier

Trade name Marlazin T 7/2

Substance name (REACH / CLP) Amines, C16-18 and C18-unsatd. alkyl, ethoxylated (CAS: 68155-40-8)

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

Use Industrial use

emulsifying agent

Uses advised against

1.3 Details of the supplier of the safety data sheet

Company SASOL Germany GmbH

Anckelmannsplatz 1 20537 Hamburg

Telephone: +49 40 63684-1000 Telefax: +49 40 63684-3700

Information (Product safety): Telephone: + 49 (0) 23 65 - 49 47 05

Telefax: + 49 (0) 23 65 - 49 92 40

E-mail address msds-info.germany@de.sasol.com

1.4 Emergency telephone number

Emergency telephone number + 49 (0) 23 65 - 49 22 32

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity Category 4 (Oral) Harmful if swallowed.

Skin irritation Category 2 Causes skin irritation.

Serious eye damage Category 1 Causes serious eye damage.

Chronic aquatic toxicity Category 1 Very toxic to aquatic life with long lasting effects.

Acute aquatic toxicity Category 1 Very toxic to aquatic life.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms









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Signal word Danger

Hazard statements

H302 Harmful if swallowed.
H315 Causes skin irritation.

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Immediately call a POISON

CENTER/doctor.

P391 Collect spillage.

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

Avoid exposure - obtain special instructions before use.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is a substance in the meaning of regulation (EC) 1907/2006.

COMPONENTS TO BE NAMED IN ACCORDANCE WITH REGULATION (EC) 1907/2006 AS WELL AS OTHER HAZARDOUS INGREDIENTS AND CONTAINED SUBSTANCES WITH WORK PLACE LIMIT VALUES

C16-18 and C18 unsaturated alkylamine, ethoxylated

content: >= 90 - <= 100 % component type: Active ingredient

EC-No.: 614-345-5 Index-No.: CAS-No.: 68155-40-8 REACH No.: Not relevant (polymer)

Substance name (REACH / CLP): Amines, C16-18 and C18-unsatd. alkyl, ethoxylated (>=2.5 EO)

 Classification (Regulation (EC) No 1272/2008):
 Acute Tox. 4 (Oral)
 H302

 Skin Irrit.
 2
 H315

 Eye Dam.
 1
 H318

Aquatic Chronic 1 H410 Aquatic Acute 1 H400

For the full text of the H-Statements mentioned in this Section, see Section 16.

Other data Synonym description: Amines, tallow alkyl, ethoxylated (CAS: 61791-26-2)

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures



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General advice Take off all contaminated clothing immediately. If you feel unwell, seek medical

advice (show the label where possible).

If inhaled Provide fresh air.

In case of skin contact

Wash off immediately with plenty of water. Consult a physician if necessary.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Protect unharmed eye.

If swallowed Rinse mouth. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed

Symptoms: No information available.

Risks: No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Indication of any immediate medical attention and special

treatment needed

Treatment: No information available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Water spray, Dry powder, Foam, Carbon dioxide (CO2)

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

Dangerous gases or fumes may occur in case of fire.

5.3 Advice for firefighters

Special protective equipment

for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information Standard procedure for chemical fires.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid formation of aerosol. Use only with adequate ventilation. Use personal

protective equipment.

6.2 Environmental precautions

Environmental precautions Should not be released into the environment.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal

binder, sawdust).

6.4 Reference to other sections

For personal protection see section 8.



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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling Wear personal protective equipment.

Avoid formation of aerosol.

Avoid contact with skin and eyes.

During spraying, wear suitable respiratory equipment.

Provide extraction ventilation at points where emissions occur.

In case of inadequate ventilation wear respiratory protection.

While transferring larger amounts without air extraction unit: respiratory protection.

Advice on protection against

fire and explosion

No special protective measures against fire required.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas

and containers

No special storage conditions required.

Storage class (TRGS 510)

10: Combustible liquids not in Storage Class 3

Other data Stable under normal conditions.

7.3 Specific end use(s)

Specific use(s) This information is not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

National occupational exposure limits

No data available

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

Derived No Effect Level (DNEL)

No data available

Predicted No Effect Concentration (PNEC)

No data available

8.2 Exposure controls

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection No personal respiratory protective equipment normally required. In inadequately

ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where aerosols are in use, or smoke and mist occur, use self-contained breathing apparatus or breathing apparatus with a type A filter or appropriate combined filter (e.g. where aerosols are in use, or smoke and mist occur, A-P2 or



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ABEK-P2), in compliance with EN 141.

Hand protection The choice of an appropriate glove does not only depend on its material but also

on other quality features and is different from one producer to the other., 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., Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).

gloves suitable for permanent contact:

Material: butyl-rubber

Break through time: >= 480 min Layer thickness: >= 0.7 mm

gloves suitable for splash protection:

Material: Nitrile rubber/nitrile latex Break through time: >= 30 min Layer thickness: >= 0.4 mm

Eye protection Tightly fitting safety goggles

Skin and body protection Wear suitable protective equipment.

Hygiene measures Avoid contact with eyes. Handle in accordance with good industrial hygiene and

safety practice.

Protective measures Wear suitable gloves and eye/face protection. Do not breathe spray. In case of

inadequate ventilation wear respiratory protection.

ENVIRONMENTAL EXPOSURE CONTROLS

General advice Should not be released into the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state liquid; 20 °C; 1,013 hPa

Form liquid
Colour yellowish
Odour neutral

Odour Threshold No data available

pH ca. 10

Melting point/range ca. 2 °C

Boiling point/boiling range Not applicable

Flash point > 200 °C; DIN ISO 2592

Evaporation rate No data available
Flammability (solid, gas) not applicable (liquid)



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Lower explosion limit No data available Upper explosion limit No data available

Vapour pressure < 0.1 hPa

Relative vapour density No data available

Density 0.98 g/cm3; 20 °C; DIN 51757

Relative density No data available Water solubility completely soluble Partition coefficient: n-No data available

octanol/water Ignition temperature

> 300 °C

Auto-ignition temperature Not applicable

liquid with a flash point of > 200 °C

Viscosity, dynamic No data available

Explosive properties Constituents do not contain chemical groups associated with explosivity.

Oxidizing properties not expected based on structure and functional groups

9.2 Other data

None known.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No decomposition if stored and applied as directed. Note

10.2 Chemical stability

Note No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions None known.

10.4 Conditions to avoid

Conditions to avoid Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.

10.5 Incompatible materials to avoid

Materials to avoid Strong acids and oxidizing agents;

10.6 Hazardous decomposition products

Hazardous decomposition Stable under normal conditions.

products

Thermal decomposition Stable under normal conditions.

Hazardous decomposition products formed under fire conditions.



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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity C16-18 and C18 unsaturated alkylamine, ethoxylated:

LD50 Rat: > 300 - 2,000 mg/kg; OECD Test Guideline 401

Category approach Harmful if swallowed.

Acute inhalation toxicity C16-18 and C18 unsaturated alkylamine, ethoxylated:

No data available

Acute dermal toxicity C16-18 and C18 unsaturated alkylamine, ethoxylated:

No data available

Skin corrosion/irritation

Skin irritation C16-18 and C18 unsaturated alkylamine, ethoxylated:

Rabbit: irritating; OECD Test Guideline 404

Category approach Causes skin irritation.

Serious eye damage/eye irritation

Eye irritation C16-18 and C18 unsaturated alkylamine, ethoxylated:

Rabbit: Irreversible effects on the eye; OECD Test Guideline 405

Category approach

Causes serious eye damage.

Respiratory or skin sensitisation

Sensitisation C16-18 and C18 unsaturated alkylamine, ethoxylated:

Buehler Test Guinea pig: not sensitizing; OECD Test Guideline 406

Category approach

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

Germ cell mutagenicity

Genotoxicity in vitroC16-18 and C18 unsaturated alkylamine, ethoxylated:

No data available

Genotoxicity in vivo C16-18 and C18 unsaturated alkylamine, ethoxylated:

No data available

Carcinogenicity

Carcinogenicity C16-18 and C18 unsaturated alkylamine, ethoxylated:

This information is not available.

Reproductive toxicity

Reproductive toxicity C16-18 and C18 unsaturated alkylamine, ethoxylated:

This information is not available.

Teratogenicity C16-18 and C18 unsaturated alkylamine, ethoxylated:

This information is not available.

STOT - single exposure

Remarks C16-18 and C18 unsaturated alkylamine, ethoxylated:

The substance or mixture is not classified as specific target organ toxicant, single

exposure.

STOT - repeated exposure

Repeated dose toxicity C16-18 and C18 unsaturated alkylamine, ethoxylated:



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This information is not available.

Aspiration hazard

Aspiration toxicity C16-18 and C18 unsaturated alkylamine, ethoxylated:

Not applicable

Further information

The data are derived from the evaluations or test results achieved with similar **Toxicological information**

products (conclusion by analogy).

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

C16-18 and C18 unsaturated alkylamine, ethoxylated: Toxicity to fish

LC50 (96 h) Brachydanio rerio (zebrafish): > 0.1 - 1 mg/l; semi-static test; OECD

Test Guideline 203 Category approach

Toxicity to fish - Chronic

toxicity

C16-18 and C18 unsaturated alkylamine, ethoxylated:

No data available

Toxicity to daphnia and other

aquatic invertebrates

C16-18 and C18 unsaturated alkylamine, ethoxylated:

EC50 (48 h) Daphnia magna (Water flea): > 1 - 10 mg/l; static test; OECD Test

Guideline 202 Category approach

Toxicity to daphnia and other

aquatic invertebrates - Chronic

toxicity

C16-18 and C18 unsaturated alkylamine, ethoxylated:

NOEC (21 d) Daphnia magna (Water flea): > 0.01 - 0.1 mg/l; semi-static test;

OECD Test Guideline 211; Category approach

(literature value)

Toxicity to aquatic plants C16-18 and C18 unsaturated alkylamine, ethoxylated:

NOEC (72 h): > 0.01 - 0.1 mg/l; static test; OECD Test Guideline 201; Category

approach (literature value)

C16-18 and C18 unsaturated alkylamine, ethoxylated:

EC50 (72 h): > 0.01 - 0.1 mg/l; static test; OECD Test Guideline 201; Category

approach (literature value)

Toxicity to bacteria C16-18 and C18 unsaturated alkylamine, ethoxylated:

EC10 Pseudomonas putida: > 10,000 mg/l; Cell multiplication inhibition test

Category approach

Toxicity to soil dwelling

organisms

C16-18 and C18 unsaturated alkylamine, ethoxylated:

No data available

Toxicity to terrestrial flora C16-18 and C18 unsaturated alkylamine, ethoxylated:

No data available

Toxicity for other terrestrial non-mammalian fauna

C16-18 and C18 unsaturated alkylamine, ethoxylated:

No data available

12.2 Persistence and degradability

Biodegradability C16-18 and C18 unsaturated alkylamine, ethoxylated:

> Readily biodegradable.; > 60 %; aerobic own test results/literature values

12.3 Bioaccumulative potential



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Bioaccumulation C16-18 and C18 unsaturated alkylamine, ethoxylated:

No data available

12.4 Mobility in soil

Mobility C16-18 and C18 unsaturated alkylamine, ethoxylated:

No data available

12.5 Results of PBT and vPvB assessment

Results of PBT assessment C16-18 and C18 unsaturated alkylamine, ethoxylated:

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

12.6 Other adverse effects

General advice C16-18 and C18 unsaturated alkylamine, ethoxylated:

Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product Can be incinerated, when in compliance with local regulations.

waste code of the European

Union: EWC

A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose. The waste code must be determined in agreement with the regional waste disposal authority or company.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

 ADR
 3082

 RID
 3082

 ADN
 3082

 IMDG
 3082

 ICAO/IATA
 3082

14.2 Proper shipping name

ADR ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty amine

ethoxylated)

RID ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty amine

ethoxylated)

ADN ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty amine

ethoxylated)

IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty amine

ethoxylated)

ICAO/IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty amine

ethoxylated)

14.3 Transport hazard class

ADR 9



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 RID
 9

 ADN
 9

 IMDG
 9

 ICAO/IATA
 9

14.4 Packing group

ADR III
RID III
ADN III
IMDG III
ICAO/IATA III

14.5 Environmental hazards

ADR Environmentally hazardous yes
RID Environmentally hazardous yes
ADN Environmentally hazardous yes
IMDG Marine pollutant yes
ICAO/IATA Environmentally hazardous yes

14.6 Special precautions for user

ADR Hazard Identification Number 90
Labels 9
Tunnel restriction code (-)
IMDG Labels 9
EmS Number 1 F-A

ICAO/IATA Labels 9MI

EmS Number 2

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Ship type 2
Pollution category Y

Remarks MARPOL NAME: Ethoxylated long chain (C16+) alkyloxyalkylamine

SECTION 15: REGULATORY INFORMATION

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

Occupational restrictions Employment restrictions for children and young workers in accordance with Directive 94/33/EC and the respective national provisions are to be observed.

S-F

NATIONAL/OTHER REGULATIONS

Legislation on the control of major-accident hazards involving dangerous substances Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

list entry in the directive:: ENVIRONMENTAL HAZARDS; E1

Qualifiying quantity 1: 100 t; Qualifiying quantity 2: 200 t;



are listed)

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NOTIFICATION STATUS		
Switzerland. Consolidated Inventory	CH INV	listed (product or constituents are listed)
US. Toxic Substances Control Act	TSCA	listed (product or constituents are listed)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	listed (product or constituents are listed)
Japan. Kashin-Hou Law List	ENCS (JP)	listed (product or constituents are listed)
Japan. Industrial Safety & Health Law (ISHL) List	ISHL (JP)	listed (product or constituents are listed)
Korea. Existing Chemicals Inventory (KECI)	KECI (KR)	listed (product or constituents are listed)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	PICCS (PH)	listed (product or constituents are listed)
China. Inventory of Existing Chemical Substances	INV (CN)	listed (product or constituents

Please note: the names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in chapter 3.

15.2 Chemical safety assessment

Amines, C16-18 and C18-unsatd. alkyl, ethoxylated (>=2.5 EO)

A Chemical Safety Assessment is not required for this substance (exempted from obligation to register).

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Safety datasheet sections which have been updated:

14. Transport information

Further information: The information provided in this Safety Data Sheet is correct to the best of our

knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any



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> other materials or in any process, unless specified in the text. This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

Key or legend to abbreviations and acronyms used in the safety data sheet

ADN Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route

AICS Australian Inventory of Chemical Substances ANSI American National Standards Institute ASTM American Society of Testing and Materials (US)

BCF Bioconcentration factor

CLP Regulation on Classification, Labelling and Packaging of Substances and Mixtures

DIN Deutsches Institut für Normung DNEL Derived No-Effect Level DSL Domestic Substances List EC.. Effect concentration ... %

ENCS Existing Notified Chemical Substances (Japan) European Waste Catalogue **EWC** IATA International Air Transport Association

Intermediate Bulk Container IBC ICAO International Civil Aviation Organization **IMDG** International Maritime Dangerous Goods International Maritime Organization IMO ISHL Industrial Safety and Health Law (Japan) International Organization for Standardization ISO **IUAPC** International Union of Pure and Applied Chemistry

KECI Korea Existing Chemicals Inventory

LC... Lethal Concentration, ...% LD... Lethal Dose, ...%

MARPOL International Convention for the Prevention of Pollution From Ships

Non-Domestic Substances List NDSL NOAEL no observable adverse effect level NOEL/NOEC No Observed-effect level/concentration NZIoC

New Zealand Inventory of Chemicals Organisation for Economic Co-operation and Development OECD

PBT persistent, bioaccumulative, toxic

PICCS Philippine Inventory of Chemicals and Chemical Substances

PNEC Predicted No-Effect Concentration

REACH

Registration, Evaluation, Authorisation and Restriction of Chemicals Règlement concernant le transport international ferroviaire de marchandises dangereuses RID

Test Guideline TG

TRGS Technische Regeln für Gefahrstoffe TSCA Toxic Substances Control Act very persistent, very bioaccumulative Wassergefährdungsklasse vPvB

WGK