

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



103866 ALDEHYDE C18 SO-CALLED

Version 8

Revision Date 21.07.2015

Print Date 22.09.2016

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

1.1 Product identifier

Commercial Product Name : ALDEHYDE C18 SO-CALLED
Material number : 103866
Substance name : Nonan-4-olide
CAS-No. : 104-61-0
EC-No. : 203-219-1

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

Use of the Substance/Mixture : Aroma chemical

1.3 Details of the supplier of the safety data sheet

Company : Holzminden
Muehlenfeldstrasse 1
D-37603 Holzminden
Telephone : +495531900
Telefax : +495531901649
E-mail address : sds@symrise.com

For further information, please contact:
Symrise AG - Tel.: +49 / (0)5531 / 90-0

1.4 Emergency telephone number

Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 101844: +49(6132)9829021

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

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2.3 Other hazards

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical characterization	:	Nonan-4-olide
Molecular weight	:	156,25 g/mol
Total formula	:	C9-H16-O2
CAS-No.	:	104-61-0
EINECS-No. / ELINCS No.	:	203-219-1

3.2 Mixtures

Hazardous components

Not applicable

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice	:	No hazards which require special first aid measures. Never give anything by mouth to an unconscious person.
Inhalation	:	Move to fresh air. In the case of inhalation of aerosol/mist consult a physician if necessary.
Skin contact	:	Wash with water and soap as a precaution.
Eye contact	:	Flush eyes with water as a precaution.
Ingestion	:	If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person. Drink water as a precaution.

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: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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Extinguishing media which shall not be used for safety reasons : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire.

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Ensure adequate ventilation. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Environmental precautions : No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Dam up. Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece).

Additional advice : Suppress (knock down) gases/vapours/mists with a water spray jet.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling : No special precautions required. For personal protection see section 8.

Advice on protection against fire and explosion : When using do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep in a dry, cool place. To maintain product quality, do not store in heat or direct sunlight.

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Advice on common storage : No special restrictions on storage with other products.

7.3 Specific end use(s)

Aroma chemical

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

none

8.2 Exposure controls

Engineering measures

none

Personal protective equipment

Respiratory protection : Not required; except in case of aerosol formation.

Hand protection : Wear chemicals-resistant gloves, e.g. safety gloves of chloroprene Level 2 or of butyl rubber Level 6.

Eye protection : Safety glasses

Skin and body protection : Skin should be washed after contact.

Hygiene measures : Wash hands before breaks and immediately after handling the product. General industrial hygiene practice.

Protective measures : Avoid contact with skin.
When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Form : clear liquid

Colour : colorless to pale yellow

Odour : characteristic

Odour Threshold : No data available

Safety data

Flash point : > 100 °C

Water solubility : 1,8 g/l

Relative density : 0,9600 - 0,9700 at
20 °C relation to density of water at 4°C

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Bulk density	:	
Relative vapour density	:	not determined
Vapour pressure	:	< 1 kPa at 50 °C calculated
Melting point/freezing point	:	not determined
Boiling point	:	243 °C at 1.013,0 mbar
Partition coefficient: n-octanol/water	:	log Pow: 2,1 calculated
pH	:	Not applicable
Evaporation rate	:	Lower than the evaporation rate of butyl acetate = 1
Flammability (solid, gas)	:	Not applicable
Auto-ignition temperature	:	The substance or mixture is not classified as self heating.
Decomposition temperature	:	No data available
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Explosive properties	:	Due to its structural properties, the product is not classified as explosive
Lower explosion limit	:	Vapours may form explosive mixtures with air.
Upper explosion limit	:	Vapours may form explosive mixtures with air.

A final assessment of potential explosion hazards can only be made on a case-by-case basis when precise information is available on product handling, production setup and the circumstances surrounding the use of the product.

9.2 Other data

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	:	No data available
10.2 Chemical stability	:	No data available
10.3 Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
10.4 Conditions to avoid	:	No data available
10.5 Incompatible materials to avoid	:	No data available
10.6 Hazardous decomposition products	:	No data available

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity	: LD50 Rat: > 5000 mg/kg
Acute inhalation toxicity	: No data available
Acute dermal toxicity	: LD50 Rabbit: > 5.000 mg/kg
Repeated dose toxicity	: No data available
Acute toxicity (other routes of administration)	: No data available
Skin irritation	: Humans: No skin irritation @ 32 %
Eye irritation	: No data available
Sensitisation	: Humans: No sensitizing effect. @ 10 %
Mutagenicity	: Not mutagenic in Ames Test
Carcinogenicity	: No data available
Reproductive toxicity	: No data available
Teratogenicity	: No data available
Specific target organ toxicity - single exposure	: No data available
Specific target organ toxicity - repeated exposure	: No data available
Aspiration toxicity	: No data available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute toxicity Aquatic invertebrates	: EC50: 52 mg/l/48 h; Daphnia magna
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12.2 Persistence and degradability

Readily biodegradable
91,9 %/28 d, OECD 301B

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product : Where possible recycling is preferred to disposal or incineration.
If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

Not classified as dangerous in the meaning of transport regulations.

14.2 Proper shipping name

Not classified as dangerous in the meaning of transport regulations.

14.3 Transport hazard class

Not classified as dangerous in the meaning of transport regulations.

14.4 Packing group

Not classified as dangerous in the meaning of transport regulations.

14.5 Environmental hazards

Not classified as dangerous in the meaning of transport regulations.

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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

Not classified as dangerous in the meaning of transport regulations.

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SECTION 15: REGULATORY INFORMATION

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

National legislation

Risk classification according to BetrSichV (Germany) : Exempt

Water contaminating class (Germany) : WGK 1 (slightly water endangering)
3311 VwVwS Annex 3

15.2 Chemical Safety Assessment

No data available

SECTION 16: OTHER 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 other materials or in any process, unless specified in the text.

Any data changes with reference to previous versions are marked by a vertical line in front of the concerned paragraph.