

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ALDES

Print date: 04.03.2022

Revision date: 04.03.2022

Page 1 of 9

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

ALDES

UFI: FDM1-V90A-82MN-MU53

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

1.3. Details of the supplier of the safety data sheet

Company name: ARCORA International GmbH
Street: Marsstraße 9
Place: D-85609 Aschheim
Telephone: +49 (0)89 / 14 33 29 3-0 Telefax: +49 (0)89 / 14 33 29 3-29
e-mail: info@arcora.de

1.4. Emergency telephone number: Giftnotruf der Charité - Universitätsmedizin Berlin -24H- Tel.: 030 30686700

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 3

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Flammable liquid and vapour.

Causes serious eye irritation.

2.2. Label elements

Regulation (EC) No. 1272/2008

Signal word: Warning

Pictograms:



Hazard statements

H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P264 Wash mit Wasser thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ALDES

Print date: 04.03.2022

Revision date: 04.03.2022

Page 2 of 9

- P303+P361+P353 protection.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P403+P235 Store in a well-ventilated place. Keep cool.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
64-17-5	ethanol; ethyl alcohol			25 - < 30 %
	200-578-6	603-002-00-5		
	Flam. Liq. 2, Eye Irrit. 2; H225 H319			
67-63-0	2-Propanol; Isopropylalkohol; Isopropanol			10 - < 15 %
	200-661-7		01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
64-17-5	200-578-6	ethanol; ethyl alcohol	25 - < 30 %
	inhalation: LC50 = 95,6 mg/l (vapours); oral: LD50 = 6200 mg/kg		
67-63-0	200-661-7	2-Propanol; Isopropylalkohol; Isopropanol	10 - < 15 %
	inhalation: LC50 = 30 mg/l (vapours); dermal: LD50 = > 5000 mg/kg; oral: LD50 = 4570 mg/kg		

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of water.

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

No information available.

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ALDES

Print date: 04.03.2022

Revision date: 04.03.2022

Page 3 of 9

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Carbon dioxide (CO₂), Foam, Extinguishing powder.

5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

6.3. Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

No special measures are necessary.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Vapours can form explosive mixtures with air.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ALDES

Print date: 04.03.2022

Revision date: 04.03.2022

Page 4 of 9

Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Name of agent			
DNEL type		Exposure route	Effect	Value
64-17-5	ethanol; ethyl alcohol			
Consumer DNEL, long-term		oral	systemic	87 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	343 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	206 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	950 mg/m³
Consumer DNEL, long-term		inhalation	systemic	114 mg/m³
67-63-0	2-Propanol; Isopropylalkohol; Isopropanol			
Consumer DNEL, acute		oral	systemic	26 mg/kg bw/day
Worker DNEL,		dermal	systemic	888 mg/kg bw/day
Consumer DNEL,		dermal	systemic	319 mg/kg bw/day
Worker DNEL,		inhalation	systemic	500 mg/m³
Consumer DNEL,		inhalation	systemic	89 mg/m³

PNEC values

CAS No	Name of agent			
Environmental compartment				Value
64-17-5	ethanol; ethyl alcohol			
Freshwater				0,96 mg/l
Freshwater (intermittent releases)				2,75 mg/l
Marine water				0,79 mg/l
Freshwater sediment				3,6 mg/kg
Marine sediment				2,9 mg/kg
Micro-organisms in sewage treatment plants (STP)				580 mg/l
Soil				0,63 mg/kg
67-63-0	2-Propanol; Isopropylalkohol; Isopropanol			
Freshwater				140,9 mg/l
Marine water				140,9 mg/l
Freshwater sediment				552 mg/kg
Marine sediment				552 mg/kg
Micro-organisms in sewage treatment plants (STP)				2251 mg/l
Soil				28 mg/kg

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ALDES

Print date: 04.03.2022

Revision date: 04.03.2022

Page 5 of 9



Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. 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. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Use of protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	colourless
Odour:	characteristic

Changes in the physical state

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	80 °C
Flash point:	23,5 °C

Flammability

Solid/liquid:	not applicable
Gas:	not applicable

Explosive properties

The product is not: Explosive.

Lower explosion limits:	2 vol. %
Upper explosion limits:	19 vol. %
Auto-ignition temperature:	400 °C
Decomposition temperature:	not determined

Oxidizing properties

The product is not: oxidising.

pH-Value (at 20 °C):	7
Water solubility:	easily soluble

Solubility in other solvents

not determined

Partition coefficient n-octanol/water:	not determined
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Safety Data Sheet

according to Regulation (EC) No 1907/2006

ALDES

Print date: 04.03.2022

Revision date: 04.03.2022

Page 6 of 9

Vapour pressure: 50 hPa
(at 20 °C)
Density (at 20 °C): 0,91 g/cm³
Relative vapour density: not determined

9.2. Other information

Other safety characteristics

Solid content: not determined
Evaporation rate: not determined

Further Information

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64-17-5	ethanol; ethyl alcohol				
	oral	LD50 mg/kg	6200	Rat	IUCLID
	inhalation (4 h) vapour	LC50	95,6 mg/l	Rat	RTECS
67-63-0	2-Propanol; Isopropylalkohol; Isopropanol				
	oral	LD50 mg/kg	4570	Ratte	
	dermal	LD50 mg/kg	> 5000	Kaninchen	
	inhalation (4 h) vapour	LC50	30 mg/l	Ratte	

Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ALDES

Print date: 04.03.2022

Revision date: 04.03.2022

Page 7 of 9

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
64-17-5	ethanol; ethyl alcohol					
	Acute crustacea toxicity	EC50 9268 - 14221 mg/l	48 h	Daphnia magna	IUCLID	
67-63-0	2-Propanol; Isopropylalkohol; Isopropanol					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	(Leuciscus idus)		
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	(Daphnia magna)		

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-17-5	ethanol; ethyl alcohol	-0,31

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

- 14.1. UN number or ID number:** UN 1987
14.2. UN proper shipping name: ALCOHOLS, N.O.S.
14.3. Transport hazard class(es): 3
14.4. Packing group: III

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ALDES

Print date: 04.03.2022

Revision date: 04.03.2022

Page 8 of 9

Hazard label:

3



Classification code: F1
Special Provisions: 274 601
Limited quantity: 5 L
Excepted quantity: E1
Transport category: 3
Hazard No: 30
Tunnel restriction code: D/E

14.6. Special precautions for user

Warning: Combustible liquid.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

2010/75/EU (VOC): 39 % (354,9 g/l)
2004/42/EC (VOC): 39 % (354,9 g/l)
Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1.

Abbreviations and acronyms

CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ALDES

Print date: 04.03.2022

Revision date: 04.03.2022

Page 9 of 9

LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Regulations concerning the international carriage of dangerous goods by rail
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
VOC: Volatile Organic Compounds
SVHC: Substance of Very High Concern
For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

Classification for mixtures and used evaluation method according to regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Eye Irrit. 2; H319	Calculation method

Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)