

according to Regulation (EC) No 1907/2006

NATURAL ISOVALERIC ACID

Revision date: 26.06.2023

Product code: 310200

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

1.1. Product identifier

NATURAL ISOVALERIC ACID

Substance name:	NATURAL ISOVALERIC ACID
CAS No:	503-74-2
EC No:	207-975-3

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

Use of the substance/mixture

For Flavour use for food and feed only

1.3. Details of the supplier of the safety data sheet

Company name:	Axxence Aromatic GmbH	
Street:	Tackenweide 28	
Place:	D-46446 Emmerich am Rhein	
Telephone:	+ 49 2822 68561 0	Telefax: + 49 2822 68561 39
E-mail:	info@axxence.com	
Contact person:	Safety Team	Telephone: + 49 2822 68561 0
E-mail:	safety-documentation@axxence.com	
Internet:	www.axxence.de	
Responsible Department:	Safety Management	
1.4. Emergency telephone	+49 2822 68561 99	

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008 Skin Corr. 1B; H314

Full text of hazard statements: see SECTION 16.

Danger

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word:

Pictograms:



Hazard statements

H314

Causes severe skin burns and eye damage.

Precautionary statements

ecautionaly statement	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
	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 or shower.
P363	Wash contaminated clothing before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER/doctor.

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P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P310	Immediately call a POISON CENTER/doctor.	
P405	Store locked up.	
P501	Dispose of contents/container to organic waste.	

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	C5 H20 O2
Molecular weight:	102,13 g/mol

Relevant ingredients

CAS No	Chemical name				Quantity	
	EC No Index No REACH No					
	Classification (Regulation (EC) No 1272/2008)					
503-74-2	NATURAL ISOVALERIC ACID				100 %	
	207-975-3					
	Skin Corr. 1B; H314					

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

Specific Conc. Limits, M-factors and ATE							
CAS No EC No Chemical name Quant							
	Specific Conc. Limits, M-factors and ATE						
503-74-2	74-2 207-975-3 NATURAL ISOVALERIC ACID						
	dermal: LD50 = >2000 mg/kg; oral: LD50 = 2500 mg/kg						

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.

After inhalation

Provide fresh air. Medical treatment necessary.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

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 and consult an ophthalmologist.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

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

Treat symptomatically.



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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Non-flammable. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

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

Provide adequate ventilation. 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 to enter into surface water or drains.

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.

Other information

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

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

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. 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 locked up. Store in a place accessible by authorized persons only. Provide

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adequate ventilation as well as local exhaustion at critical locations.

Hints on joint storage

No special measures are necessary.

7.3. Specific end use(s)

For Flavour use for food and feed only

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

PNEC values

CAS No	Name of agent					
Environmental compartment Value						
503-74-2	503-74-2 NATURAL ISOVALERIC ACID					
Freshwater 0,0293 mg/l						
Freshwater (intermittent releases) 0,293 mg/l						
Marine water 0,002						
Freshwater sediment 0,						
Marine sediment 0,001						
Micro-organism	22,4 mg/l					
Soil	0,00625 mg/kg					

8.2. Exposure controls





Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

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:	
Melting point/freezing point:	

-29 °C



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Boiling point or initial boiling point and boiling range:	179 °C	
Flammability:	not determined	
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Flash point:	80 °C	
Auto-ignition temperature:	420 °C	
Decomposition temperature:	not determined	
pH-Value (at 20 °C):	3	
Water solubility: (at 25 °C)	48 g/l	
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:	1,7	
Vapour pressure:	1 hPa	
(at 20 °C)	0.7 kD-	
Vapour pressure: (at 50 °C)	3,7 hPa	
Density (at 20 °C):	0,93 g/cm³	
Relative vapour density:	not determined	
9.2. Other information		
Information with regard to physical hazard classes	5	
Explosive properties		
The product is not: Explosive. not explosive acco	rding to EU A.14	
Oxidizing properties		
The product is not: oxidising.		
Other safety characteristics		
Evaporation rate:	not determined	
Solvent content:	0%	
Solid content:	0%	
Viscosity / dynamic:	2,4 mPa·s	
(at 20 °C)		

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

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

none

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

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Acute toxicity

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

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
503-74-2	NATURAL ISOVALERIC ACID						
	oral	LD50 mg/kg	2500	Rat	REACH Dossier	OECD 401	
	dermal	LD50 mg/kg	>2000	Rabbit	REACH Dossier	OECD 402	

Irritation and corrosivity

Skin corrosion/irritation: Causes severe skin burns and eye damage. Serious eye damage/eye irritation: Causes serious eye damage.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

Further information

This substance is classified as hazardous according to Regulation (EC) No 1272 (2008).

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name							
	Aquatic toxicity	Dose	Dose		Species	Source	Method	
503-74-2	NATURAL ISOVALERIC ACID							
	Acute fish toxicity LC50 77 mg/l			Pimephales promelas (fathead minnow)	REACH Dossier	OECD 203		
	Acute algae toxicity	ErC50 mg/l	29,33		Pseudokirchneriella subcapitata	REACH Dossier	OECD 201	
	Acute crustacea toxicity	EC50 mg/l	59,4		Daphnia magna (Big water flea)	REACH Dossier	OECD 202	

12.2. Persistence and degradability

The product has not been tested.



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CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
503-74-2	NATURAL ISOVALERIC ACID				
	OECD 301	62%	10		
	Readily biodegradable				

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
503-74-2	NATURAL ISOVALERIC ACID	1,7
BCF		

CAS No	Chemical name	BCF	Species	Source
503-74-2	NATURAL ISOVALERIC ACID	3,16		

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

The product has not been tested.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

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.

List of Wastes Code - residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

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

UN 3265

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:



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<u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. 8 II 8	
Classification code: Special Provisions: Limited quantity: Excepted quantity: Transport category: Hazard No: Tunnel restriction code: Other applicable information (land tra E2	C3 274 1 L E2 2 80 E nsport)	
Inland waterways transport (ADN) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label:	UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. 8 II 8	
Classification code: Special Provisions: Limited quantity: Excepted quantity: Other applicable information (inland w E2	C3 274 1 L E2 vaterways transport)	
Marine transport (IMDG) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label:	UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. 8 II 8	
Special Provisions: Limited quantity: Excepted quantity: EmS: Segregation group: Air transport (ICAO-TI/IATA-DGR) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label:	274 1 L E2 F-A, S-B 1 - acids UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. 8 II 8	



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	8							
Special Provisions:	A3 A803							
Limited quantity Passenger:	0.5 L							
Passenger LQ:	Y840							
Excepted quantity:	E2							
IATA-packing instructions - Passenger:	851							
IATA-max. quantity - Passenger:	1 L							
IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	855 30 L							
	30 E							
14.5. Environmental hazards								
ENVIRONMENTALLY HAZARDOUS:	No							
14.6. Special precautions for user								
Warning: strongly corrosive.								
14.7. Maritime transport in bulk according	g to IMO instruments							
not applicable								
SECTION 15: Regulatory information								
Scottory in officiation								
15.1. Safety, health and environmental reg	gulations/legislation specific for the substance or mixture							
EU regulatory information	II):							
EU regulatory information Restrictions on use (REACH, annex XVI	II):							
EU regulatory information Restrictions on use (REACH, annex XVI Entry 3								
EU regulatory information Restrictions on use (REACH, annex XVI	II): 100 % (930 g/l)							
EU regulatory information Restrictions on use (REACH, annex XVI Entry 3 Directive 2010/75/EU on industrial emissions:	100 % (930 g/l)							
EU regulatory information Restrictions on use (REACH, annex XVI Entry 3 Directive 2010/75/EU on industrial emissions: Directive 2004/42/EC on VOC in								
EU regulatory information Restrictions on use (REACH, annex XVI Entry 3 Directive 2010/75/EU on industrial emissions: Directive 2004/42/EC on VOC in paints and varnishes:	100 % (930 g/l) 100 % (930 g/l)							
EU regulatory information Restrictions on use (REACH, annex XVI Entry 3 Directive 2010/75/EU on industrial emissions: Directive 2004/42/EC on VOC in	100 % (930 g/l)							
EU regulatory information Restrictions on use (REACH, annex XVI Entry 3 Directive 2010/75/EU on industrial emissions: Directive 2004/42/EC on VOC in paints and varnishes: Information according to Directive	100 % (930 g/l) 100 % (930 g/l)							
EU regulatory information Restrictions on use (REACH, annex XVI Entry 3 Directive 2010/75/EU on industrial emissions: Directive 2004/42/EC on VOC in paints and varnishes: Information according to Directive 2012/18/EU (SEVESO III): Additional information	100 % (930 g/l) 100 % (930 g/l) Not subject to 2012/18/EU (SEVESO III)							
EU regulatory information Restrictions on use (REACH, annex XVI Entry 3 Directive 2010/75/EU on industrial emissions: Directive 2004/42/EC on VOC in paints and varnishes: Information according to Directive 2012/18/EU (SEVESO III): Additional information To follow: 850/2004/EC, 79/117/EEC	100 % (930 g/l) 100 % (930 g/l) Not subject to 2012/18/EU (SEVESO III)							
 EU regulatory information Restrictions on use (REACH, annex XVI Entry 3 Directive 2010/75/EU on industrial emissions: Directive 2004/42/EC on VOC in paints and varnishes: Information according to Directive 2012/18/EU (SEVESO III): Additional information To follow: 850/2004/EC, 79/117/EEC National regulatory information 	100 % (930 g/l) 100 % (930 g/l) Not subject to 2012/18/EU (SEVESO III) C, 689/2008/EC							
EU regulatory information Restrictions on use (REACH, annex XVI Entry 3 Directive 2010/75/EU on industrial emissions: Directive 2004/42/EC on VOC in paints and varnishes: Information according to Directive 2012/18/EU (SEVESO III): Additional information To follow: 850/2004/EC, 79/117/EEC	100 % (930 g/l) 100 % (930 g/l) Not subject to 2012/18/EU (SEVESO III) C, 689/2008/EC Observe restrictions to employment for juveniles according to the 'juvenile							
 EU regulatory information Restrictions on use (REACH, annex XVI Entry 3 Directive 2010/75/EU on industrial emissions: Directive 2004/42/EC on VOC in paints and varnishes: Information according to Directive 2012/18/EU (SEVESO III): Additional information To follow: 850/2004/EC, 79/117/EEC National regulatory information 	100 % (930 g/l) 100 % (930 g/l) Not subject to 2012/18/EU (SEVESO III) C, 689/2008/EC							
 EU regulatory information Restrictions on use (REACH, annex XVI Entry 3 Directive 2010/75/EU on industrial emissions: Directive 2004/42/EC on VOC in paints and varnishes: Information according to Directive 2012/18/EU (SEVESO III): Additional information To follow: 850/2004/EC, 79/117/EEC National regulatory information Employment restrictions: Water hazard class (D): 	100 % (930 g/l) 100 % (930 g/l) Not subject to 2012/18/EU (SEVESO III) C, 689/2008/EC Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).							
EU regulatory information Restrictions on use (REACH, annex XVI Entry 3 Directive 2010/75/EU on industrial emissions: Directive 2004/42/EC on VOC in paints and varnishes: Information according to Directive 2012/18/EU (SEVESO III): Additional information To follow: 850/2004/EC, 79/117/EEC National regulatory information Employment restrictions: Water hazard class (D): 15.2. Chemical safety assessment	100 % (930 g/l) 100 % (930 g/l) Not subject to 2012/18/EU (SEVESO III) C, 689/2008/EC Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). 1 - slightly hazardous to water							
EU regulatory information Restrictions on use (REACH, annex XVI Entry 3 Directive 2010/75/EU on industrial emissions: Directive 2004/42/EC on VOC in paints and varnishes: Information according to Directive 2012/18/EU (SEVESO III): Additional information To follow: 850/2004/EC, 79/117/EEC National regulatory information Employment restrictions: Water hazard class (D): 15.2. Chemical safety assessment	100 % (930 g/l) 100 % (930 g/l) Not subject to 2012/18/EU (SEVESO III) C, 689/2008/EC Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).							

Changes

This data sheet contains changes from the previous version in section(s): 2,4,6,7,9,11,13,14,15,16.



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Abbreviations and acronyms

Skin Corr: Skin corrosion Eye Dam: Eye damage ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration. 50% LD50: Lethal dose, 50% 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 DNFL: Derived No Effect Level DMFL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate 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: verv persistent, verv bioaccumulative RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide ICAO: International Civil Aviation Organization 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 For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). Relevant H and EUH statements (number and full text) nade.

H314	Causes	severe s	skin burns a	ind eye darr
11010	•			

H318 Causes serious eye damage.

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.



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Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1		-	4	28	-	-	-	-	Flavour

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use PROC: Process categories

AC: Article categories