

**Trade name:** AC Powder Spray**Product no.:** 13001384**Current version :** 9.1.0, issued: 15.03.2022**Replaced version:** 9.0.0, issued: 17.12.2020**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

**AC Powder Spray****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

animal care

**Uses advised against**

No data available.

**1.3 Details of the supplier of the safety data sheet****Address**

EW Nutrition GmbH

Hogenbögen 1

49429 Visbek

Telephone no. +49 (0)4445 98 68 - 0

Fax no. +49 (0)4445 98 68 - 119

e-mail info@ew-nutrition.com

**Information provided by / telephone**

+49 (0)421 5 72 92 - 0

**Advice on Safety Data Sheet**

sdb\_info@umco.de

**1.4 Emergency telephone number**

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aerosol 1; H222

Aquatic Chronic 2; H411

Skin Irrit. 2; H315

Skin Sens. 1; H317

STOT SE 3; H336

Asp. Tox. 1; H304

**Classification information**

Classification and labelling with respect to skin sensitization and/or respiratory sensitization are based on toxicological studies performed on the product (mixture).

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS02



GHS07



GHS09

**Trade name:** AC Powder Spray**Product no.:** 13001384**Current version :** 9.1.0, issued: 15.03.2022**Replaced version:** 9.0.0, issued: 17.12.2020**Region:** GB**Signal word**

Danger

**Hazard statement(s)**

H222 Extremely flammable aerosol.  
 H229 Pressurised container: May burst if heated.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H336 May cause drowsiness or dizziness.  
 H411 Toxic to aquatic life with long lasting effects.

**Precautionary statement(s)**

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P211 Do not spray on an open flame or other ignition source.  
 P251 Do not pierce or burn, even after use.  
 P271 Use only outdoors or in a well-ventilated area.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection.  
 P391 Collect spillage.  
 P405 Store locked up.  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
 P501 Dispose of contents/container to a facility in accordance with local and national regulations.

**2.3 Other hazards**

During and after use possible formation of combustible mixture with solvents.

PBT assessment

No data available.

vPvB assessment

No data available.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures****Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	<b>butane</b>		
	106-97-8 203-448-7 601-004-00-0 01-2119474691-32	Flam. Gas 1A; H220 Press. Gas liq.; H280	>= 25.00 - < 50.00 wt%
2	<b>zinc oxide</b>		
	1314-13-2 215-222-5 030-013-00-7 01-2119463881-32	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 2.50 - < 25.00 wt%
3	<b>propane</b>		
	74-98-6 200-827-9 601-003-00-5 01-2119486944-21	Flam. Gas 1A; H220 Press. Gas liq.; H280	>= 10.00 - < 25.00 wt%
4	<b>Hydrocarbons, C6-C7, isoalkanes, cyclics, &lt;5% n-hexane</b>		
	64742-49-0	Aquatic Chronic 2; H411	>= 5.00 - < 10.00 wt%

Trade name: AC Powder Spray

Product no.: 13001384

Current version : 9.1.0, issued: 15.03.2022

Replaced version: 9.0.0, issued: 17.12.2020

Region: GB

	926-605-8 - 01-2119486291-36	Asp. Tox. 1; H304 Flam. Liq. 2; H225 STOT SE 3; H336 EUH066		
5	<b>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</b>			
	64742-49-0 921-024-6 - 01-2119475514-35	Aquatic Chronic 2; H411 Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304	< 5.00	wt%
6	<b>Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</b>			
	64742-49-0 931-254-9 - 01-2119484651-34	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	< 5.00	wt%
7	<b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics</b>			
	- 927-510-4 - 01-2119475515-33	Aquatic Chronic 2; H411 Asp. Tox. 1; H304 Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336	< 5.00	wt%
8	<b>cyclohexane</b>			
	110-82-7 203-806-2 601-017-00-1 01-2119463273-41	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Asp. Tox. 1; H304 Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336	< 0.50	wt%
9	<b>n-hexane</b>			
	110-54-3 203-777-6 601-037-00-0 01-2119480412-44	Aquatic Chronic 2; H411 Asp. Tox. 1; H304 Flam. Liq. 2; H225 Repr. 2; H361f Skin Irrit. 2; H315 STOT RE 2; H373 STOT SE 3; H336	< 0.50	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	C, U	-	-	-
2	-	-	M = 1	M = 1
3	U	-	-	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

Acute toxicity estimate (ATE) values			
No	oral	dermal	inhalative
9	24 mg/kg bodyweight		

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In all cases of doubt, or when sickness symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. Remove soiled or soaked clothing immediately.

#### After inhalation

Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. If unconscious place in recovery

**Trade name:** AC Powder Spray**Product no.:** 13001384**Current version :** 9.1.0, issued: 15.03.2022**Replaced version:** 9.0.0, issued: 17.12.2020**Region:** GB

position and seek medical advice.

**After skin contact**

When in contact with the skin, clean with soap and water. Do NOT use solvents or thinners.

**After eye contact**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes).

**After ingestion**

Do not induce vomiting. Call a doctor immediately. Never give anything by mouth to an unconscious person. Keep at rest.

**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**

Alcohol-resistant foam; Dry chemical extinguisher; Carbon dioxide; Water spray jet

**Unsuitable extinguishing media**

High power water jet

**5.2 Special hazards arising from the substance or mixture**

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Exposure to heat may cause bursting of the aerosol packagings. In the event of fire, the following can be released: Nitrogen oxides (NO<sub>x</sub>); Hydrogen chloride (HCl); Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>)

**5.3 Advice for firefighters**

Appropriate breathing apparatus may be required. Cool endangered containers with water in case of fire. DO NOT ALLOW RUN-OFF FROM FIRE FIGHTING TO ENTER DRAINS OR WATER COURSES

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Exclude sources of ignition and ventilate the area. Do not inhale vapours. Refer to protective measures listed in sections 7 and 8.

**For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

**6.2 Environmental precautions**

Do not allow to enter drains. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

**6.3 Methods and material for containment and cleaning up**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent - avoid use of solvents.

**6.4 Reference to other sections**

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Advice on safe handling**

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher

**Trade name:** AC Powder Spray**Product no.:** 13001384**Current version :** 9.1.0, issued: 15.03.2022**Replaced version:** 9.0.0, issued: 17.12.2020**Region:** GB

than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Comply with the health and safety at work laws.

**General protective and hygiene measures**

Do not eat or drink during work - no smoking.

**Advice on protection against fire and explosion**

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures and storage conditions**

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep container dry in a cool, well-ventilated place.

**Recommended storage temperature**

Value 20 - 25 °C

**Requirements for storage rooms and vessels**

Storage rooms must be properly ventilated.

**Incompatible products**

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

**7.3 Specific end use(s)**

No data available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	butane	106-97-8	203-448-7
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
Butane			
	WEL short-term (15 min reference period)	1810 mg/m <sup>3</sup>	750 ppm
	WEL long-term (8-hr TWA reference period)	1450 mg/m <sup>3</sup>	600 ppm
	Comments	Carc, (only applies if Butane contains more than 0.1% of buta-1,3-diene)	
2	cyclohexane	110-82-7	203-806-2
<b>2006/15/EC</b>			
Cyclohexane			
	WEL long-term (8-hr TWA reference period)	700 mg/m <sup>3</sup>	200 ppm
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
Cyclohexane			
	WEL short-term (15 min reference period)	1050 mg/m <sup>3</sup>	300 ppm
	WEL long-term (8-hr TWA reference period)	350 mg/m <sup>3</sup>	100 ppm
3	n-hexane	110-54-3	203-777-6
<b>2006/15/EC</b>			
n-Hexane			
	WEL long-term (8-hr TWA reference period)	72 mg/m <sup>3</sup>	20 ppm
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
n-Hexane			
	WEL long-term (8-hr TWA reference period)	72 mg/m <sup>3</sup>	20 ppm

**DNEL, DMEL and PNEC values****DNEL values (worker)**

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	zinc oxide			1314-13-2 215-222-5
	dermal	Long term (chronic)	systemic	83 mg/kg/day

Trade name: AC Powder Spray

Product no.: 13001384

Current version : 9.1.0, issued: 15.03.2022

Replaced version: 9.0.0, issued: 17.12.2020

Region: GB

	with reference to: Zn Comments: insoluble			
	inhalative	Long term (chronic)	systemic	5 mg/m <sup>3</sup>
	with reference to: Zn Comments: insoluble			
	inhalative	Long term (chronic)	local	0.5 mg/m <sup>3</sup>
	with reference to: Zn Comments: insoluble			
2	<b>Hydrocarbons, C6-C7, isoalkanes, cyclics, &lt;5% n-hexane</b>			<b>64742-49-0 926-605-8</b>
	dermal	Long term (chronic)	systemic	13964 mg/kg/day
	inhalative	Long term (chronic)	systemic	5306 mg/m <sup>3</sup>
3	<b>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</b>			<b>64742-49-0 921-024-6</b>
	dermal	Long term (chronic)	systemic	773 mg/kg/day
	inhalative	Long term (chronic)	systemic	2035 mg/m <sup>3</sup>
4	<b>Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</b>			<b>64742-49-0 931-254-9</b>
	dermal	Long term (chronic)	systemic	13964 mg/kg/day
	inhalative	Long term (chronic)	systemic	5306 mg/m <sup>3</sup>
5	<b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics</b>			<b>- 927-510-4</b>
	dermal	Long term (chronic)	systemic	300 mg/kg/day
	inhalative	Long term (chronic)	systemic	2085 mg/m <sup>3</sup>
6	<b>cyclohexane</b>			<b>110-82-7 203-806-2</b>
	dermal	Long term (chronic)	systemic	2016 mg/kg bw/day
	inhalative	Long term (chronic)	systemic	700 mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	1400 mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	700 mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	1400 mg/m <sup>3</sup>
7	<b>n-hexane</b>			<b>110-54-3 203-777-6</b>
	dermal	Long term (chronic)	systemic	11 mg/kg
	inhalative	Long term (chronic)	systemic	75 mg/m <sup>3</sup>

**DNEL value (consumer)**

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	<b>zinc oxide</b>			<b>1314-13-2 215-222-5</b>
	oral	Long term (chronic)	systemic	0.83 mg/kg/day
	with reference to: Zn Comments: insoluble			
	dermal	Long term (chronic)	systemic	83 mg/kg/day
	with reference to: Zn Comments: insoluble			
	inhalative	Long term (chronic)	systemic	2.5 mg/m <sup>3</sup>
	with reference to: Zn Comments: insoluble			
2	<b>Hydrocarbons, C6-C7, isoalkanes, cyclics, &lt;5% n-hexane</b>			<b>64742-49-0 926-605-8</b>
	oral	Long term (chronic)	systemic	1301 mg/kg/day
	dermal	Long term (chronic)	systemic	1377 mg/kg/day
	inhalative	Long term (chronic)	systemic	1131 mg/m <sup>3</sup>
3	<b>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</b>			<b>64742-49-0 921-024-6</b>
	oral	Long term (chronic)	systemic	699 mg/kg/day
	dermal	Long term (chronic)	systemic	699 mg/kg/day
	inhalative	Long term (chronic)	systemic	608 mg/m <sup>3</sup>

Trade name: AC Powder Spray

Product no.: 13001384

Current version : 9.1.0, issued: 15.03.2022

Replaced version: 9.0.0, issued: 17.12.2020

Region: GB

4	<b>Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</b>			<b>64742-49-0</b> <b>931-254-9</b>
	oral	Long term (chronic)	systemic	1301 mg/kg/day
	dermal	Long term (chronic)	systemic	1377 mg/kg/day
	inhalative	Long term (chronic)	systemic	1131 mg/m <sup>3</sup>
5	<b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics</b>			- <b>927-510-4</b>
	oral	Long term (chronic)	systemic	149 mg/kg/day
	dermal	Long term (chronic)	systemic	149 mg/kg/day
	inhalative	Long term (chronic)	systemic	447 mg/m <sup>3</sup>
6	<b>cyclohexane</b>			<b>110-82-7</b> <b>203-806-2</b>
	oral	Long term (chronic)	systemic	59.7 mg/kg bw/day
	dermal	Long term (chronic)	systemic	1186 mg/kg
	inhalative	Long term (chronic)	systemic	206 mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	412 mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	206 mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	412 mg/m <sup>3</sup>
7	<b>n-hexane</b>			<b>110-54-3</b> <b>203-777-6</b>
	oral	Long term (chronic)	systemic	4 mg/kg
	dermal	Long term (chronic)	systemic	5.3 mg/kg
	inhalative	Long term (chronic)	systemic	16 mg/m <sup>3</sup>

**PNEC values**

No	Substance name	CAS / EC no	
	ecological compartment	Type	Value
1	<b>zinc oxide</b>		<b>1314-13-2</b> <b>215-222-5</b>
	water	fresh water	20.6 µg/L
	with reference to: Zn		
	water	marine water	6.1 µg/L
	with reference to: Zn		
	water	fresh water sediment	117.8 mg/kg
	water	marine water sediment	56.5 mg/kg
	with reference to: Zn, dry weight		
	soil	-	35.6 mg/kg
	with reference to: Zn, dry weight		
	sewage treatment plant	-	100 µg/L
2	<b>cyclohexane</b>		<b>110-82-7</b> <b>203-806-2</b>
	water	fresh water	44.7 µg/L
	water	marine water	4.47 µg/L
	water	fresh water sediment	3.6 mg/kg dry weight
	water	marine water sediment	0.36 mg/kg dry weight
	soil	-	0.694 mg/kg dry weight
	sewage treatment plant	-	3.24 mg/L

**8.2 Exposure controls****Appropriate engineering controls**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

**Personal protective equipment****Respiratory protection**

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators.

**Trade name:** AC Powder Spray**Product no.:** 13001384**Current version :** 9.1.0, issued: 15.03.2022**Replaced version:** 9.0.0, issued: 17.12.2020**Region:** GB

Use half-mask model with cartridge or air-fed.

**Eye / face protection**

Safety glasses (EN 166)

**Hand protection**

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. For prolonged or repeated contact: use barrier creams, which may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred. Mind the manufacturer recommendations.

Appropriate Material

NBR

Material thickness

0.4

mm

Breakthrough time

&gt;=

240

min

**Other**

Chemical-resistant work clothes.

**Environmental exposure controls**

No data available.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

<b>State of aggregation</b>	
liquid	
<b>Form/Colour</b>	
Aerosol	
white	
<b>Odour</b>	
solvent-like	
<b>pH value</b>	
No data available	
<b>Boiling point / boiling range</b>	
Value	< -20 °C
Source	Manufacturer
<b>Melting point/freezing point</b>	
No data available	
<b>Decomposition temperature</b>	
No data available	
<b>Flash point</b>	
Value	< -20 °C
Source	Manufacturer
<b>Ignition temperature</b>	
Value	> 200 °C
Source	Manufacturer
<b>Flammability</b>	
No data available	
<b>Lower explosion limit</b>	
Value	% vol
<b>Upper explosion limit</b>	
Value	12.5 % vol
Source	Manufacturer
<b>Vapour pressure</b>	
No data available	



**Trade name:** AC Powder Spray**Product no.:** 13001384**Current version :** 9.1.0, issued: 15.03.2022**Replaced version:** 9.0.0, issued: 17.12.2020**Region:** GB

Relative vapour density	
No data available	

Relative density	
No data available	

Density	
Value	0.667 g/cm <sup>3</sup>
Source	Manufacturer

Solubility in water	
Source	Manufacturer
Comments	insoluble

Solubility	
No data available	

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	propane	74-98-6	200-827-9
	log Pow	appr. 1.8	
	Method	QSAR	
	Source	ECHA	
2	n-hexane	110-54-3	203-777-6
	log Pow	4	
	Reference temperature	20	°C
	Source	ECHA	

Viscosity	
No data available	

Particle characteristics	
No data available	

**9.2 Other information**

Other information	
No data available.	

**SECTION 10: Stability and reactivity****10.1 Reactivity**

Dangerous reactions are not expected if the product is handled according to its intended use.

**10.2 Chemical stability**

Stable under recommended storage and handling conditions (See section 7).

**10.3 Possibility of hazardous reactions**

No dangerous reactions known.

**10.4 Conditions to avoid**

No data available.

**10.5 Incompatible materials**

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

**10.6 Hazardous decomposition products**

No data available.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	zinc oxide	1314-13-2	215-222-5

Trade name: AC Powder Spray

Product no.: 13001384

Current version : 9.1.0, issued: 15.03.2022

Replaced version: 9.0.0, issued: 17.12.2020

Region: GB

LD50	>	5000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
<b>2</b>	<b>Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</b>	<b>64742-49-0</b>	<b>931-254-9</b>
LD50	>	16750	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>3</b>	<b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics</b>	<b>-</b>	<b>927-510-4</b>
LD50	>	5840	mg/kg bodyweight
Species	rat		
Source	ECHA		
<b>4</b>	<b>cyclohexane</b>	<b>110-82-7</b>	<b>203-806-2</b>
LD50	>	5000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>5</b>	<b>n-hexane</b>	<b>110-54-3</b>	<b>203-777-6</b>
LD50	>	24	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		

**Acute dermal toxicity**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>zinc oxide</b>	<b>1314-13-2</b>	<b>215-222-5</b>
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 402		
Source	ECHA		
<b>2</b>	<b>Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</b>	<b>64742-49-0</b>	<b>931-254-9</b>
LD50	>	3350	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>3</b>	<b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics</b>	<b>-</b>	<b>927-510-4</b>
LD50	>	2800 - 3100	mg/kg bodyweight
Species	rat		
Source	ECHA		
<b>4</b>	<b>cyclohexane</b>	<b>110-82-7</b>	<b>203-806-2</b>
LD50	>	2000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

**Acute inhalational toxicity**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>zinc oxide</b>	<b>1314-13-2</b>	<b>215-222-5</b>
LC50	>	5.7	mg/l
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species	rat		
Method	OECD 403		
Source	ECHA		
<b>2</b>	<b>propane</b>	<b>74-98-6</b>	<b>200-827-9</b>
LC50	>	800000	ppmV

Trade name: AC Powder Spray

Product no.: 13001384

Current version : 9.1.0, issued: 15.03.2022

Replaced version: 9.0.0, issued: 17.12.2020

Region: GB

Duration of exposure	0.25	h
State of aggregation	Gas	
Species	rat	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	
<b>3</b>	<b>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</b>	<b>64742-49-0 921-024-6</b>
LC50	>	25.2 mg/l
Duration of exposure	4	h
State of aggregation	Vapour	
Species	rat	
Source	ECHA	
<b>4</b>	<b>Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</b>	<b>64742-49-0 931-254-9</b>
LC50		259.3 mg/l
Duration of exposure	4	h
State of aggregation	Vapour	
Species	rat	
Method	OECD 403	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	
<b>5</b>	<b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics</b>	<b>- 927-510-4</b>
LC50	>	23.3 mg/l
Duration of exposure	4	h
State of aggregation	Vapour	
Species	rat	
Method	OECD 403	
Source	ECHA	
<b>6</b>	<b>cyclohexane</b>	<b>110-82-7 203-806-2</b>
LC50	>	19.07 mg/l
Duration of exposure	4	h
State of aggregation	Dust/mist	
Species	rat	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	

**Skin corrosion/irritation**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>zinc oxide</b>	<b>1314-13-2</b>	<b>215-222-5</b>
	Species	rabbit	
	Method	OECD 404	
	Source	ECHA	
	Evaluation	non-irritant	
<b>2</b>	<b>Hydrocarbons, C6-C7, isoalkanes, cyclics, &lt;5% n-hexane</b>	<b>64742-49-0</b>	<b>926-605-8</b>
	Species	rabbit	
	Method	OECD 404	
	Source	ECHA	
	Evaluation	non-irritant	
<b>3</b>	<b>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</b>	<b>64742-49-0</b>	<b>921-024-6</b>
	Species	rabbit	
	Method	OECD 404	
	Source	ECHA	
	Evaluation	irritant	
<b>4</b>	<b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics</b>	<b>-</b>	<b>927-510-4</b>
	Species	rabbit	
	Method	OECD 404	
	Source	ECHA	
	Evaluation	irritant	

**Serious eye damage/irritation**

Trade name: AC Powder Spray

Product no.: 13001384

Current version : 9.1.0, issued: 15.03.2022

Replaced version: 9.0.0, issued: 17.12.2020

Region: GB

No	Substance name	CAS no.	EC no.
1	zinc oxide	1314-13-2	215-222-5
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		non-irritant	
2	Hydrocarbons, C6, isoalkanes, <5% n-hexane	64742-49-0	931-254-9
Duration of exposure		72	h
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		non-irritant	
Evaluation/classification		Based on available data, the classification criteria are not met.	
3	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	-	927-510-4
Species		rabbit	
Source		ECHA	
Evaluation		non-irritant	

**Respiratory or skin sensitisation**

No	Product Name		
1	AC Powder Spray		
Route of exposure		Skin	
Source		Manufacturer	
Comments		Can cause sensitisation of the skin if it comes into contact.	
No	Substance name	CAS no.	EC no.
2	zinc oxide	1314-13-2	215-222-5
Route of exposure		respiratory tract	
Source		ECHA	
Evaluation		non-sensitizing	
Evaluation/classification		Based on available data, the classification criteria are not met.	

**Germ cell mutagenicity**

No	Substance name	CAS no.	EC no.
1	butane	106-97-8	203-448-7
Type of examination		In vitro Mammalian Chromosomal Aberration Test	
Species		Human Lymphocyte	
Method		OECD 473	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Type of examination		in vitro gene mutation study in bacteria	
Species		Salmonella typhimurium	
Method		OECD 471	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	64742-49-0	926-605-8
Source		ECHA / Read across	
Evaluation/classification		Based on available data, the classification criteria are not met.	
3	Hydrocarbons, C6, isoalkanes, <5% n-hexane	64742-49-0	931-254-9
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
4	n-hexane	110-54-3	203-777-6
Species		Salmonella typhimurium TA98, TA100, TA1535, TA1537	
Method		OECD 471	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

**Reproduction toxicity**

No	Substance name	CAS no.	EC no.
1	butane	106-97-8	203-448-7
Route of exposure		inhalational	

Trade name: AC Powder Spray

Product no.: 13001384

Current version : 9.1.0, issued: 15.03.2022

Replaced version: 9.0.0, issued: 17.12.2020

Region: GB

Species	rat		
Method	OECD 422		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>2</b>	<b>propane</b>	<b>74-98-6</b>	<b>200-827-9</b>
Route of exposure	inhalational		
NOAEC	12000 ppm		
Type of examination	Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test		
Species	rat		
Method	OECD 422		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>3</b>	<b>Hydrocarbons, C6-C7, isoalkanes, cyclics, &lt;5% n-hexane</b>	<b>64742-49-0</b>	<b>926-605-8</b>
Source	ECHA / Read across		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>4</b>	<b>Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</b>	<b>64742-49-0</b>	<b>931-254-9</b>
Route of exposure	inhalational		
NOAEC	9000 ppm		
Duration of exposure	13 week/s		
Type of examination	2 generation study		
Species	rat		
Method	OECD 416		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>5</b>	<b>n-hexane</b>	<b>110-54-3</b>	<b>203-777-6</b>
Species	rat		
Method	OECD 416		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

**Carcinogenicity**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>Hydrocarbons, C6-C7, isoalkanes, cyclics, &lt;5% n-hexane</b>	<b>64742-49-0</b>	<b>926-605-8</b>
Source	ECHA / Read across		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>2</b>	<b>Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</b>	<b>64742-49-0</b>	<b>931-254-9</b>
Route of exposure	inhalational		
NOAEC	9018 ppm		
Duration of exposure	2 year(s)		
Species	mouse		
Method	OECD 451		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>butane</b>	<b>106-97-8</b>	<b>203-448-7</b>
Route of exposure	inhalational		
Species	rat		
Method	OECD 422		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>2</b>	<b>propane</b>	<b>74-98-6</b>	<b>200-827-9</b>
Route of exposure	inhalational		
LOAEC	12000 ppm		

**Trade name:** AC Powder Spray**Product no.:** 13001384**Current version :** 9.1.0, issued: 15.03.2022**Replaced version:** 9.0.0, issued: 17.12.2020**Region:** GB

Species	rat		
Method	OECD 422		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>3</b>	<b>Hydrocarbons, C6-C7, isoalkanes, cyclics, &lt;5% n-hexane</b>	<b>64742-49-0</b>	<b>926-605-8</b>
Source	ECHA / Read across		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>4</b>	<b>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</b>	<b>64742-49-0</b>	<b>921-024-6</b>
Route of exposure	inhalational		
NOAEC	14000	mg/m <sup>3</sup>	
Species	rat		
Source	ECHA		
<b>5</b>	<b>Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</b>	<b>64742-49-0</b>	<b>931-254-9</b>
Route of exposure	inhalational		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

**Aspiration hazard**

No data available

**11.2 Information on other hazards****Endocrine disrupting properties**

No data available.

**Other information**

No data available.

**SECTION 12: Ecological information****12.1 Toxicity**

<b>Toxicity to fish (acute)</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
<b>1</b>	<b>Hydrocarbons, C6-C7, isoalkanes, cyclics, &lt;5% n-hexane</b>	<b>64742-49-0</b>	<b>926-605-8</b>
LL50		12	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		
<b>2</b>	<b>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</b>	<b>64742-49-0</b>	<b>921-024-6</b>
LC50		11.4	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		
<b>3</b>	<b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics</b>	<b>-</b>	<b>927-510-4</b>
LL50		>	13.4
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		
<b>4</b>	<b>cyclohexane</b>	<b>110-82-7</b>	<b>203-806-2</b>
LC50		4.53	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	OECD 203		
Source	ECHA		

Trade name: AC Powder Spray

Product no.: 13001384

Current version : 9.1.0, issued: 15.03.2022

Replaced version: 9.0.0, issued: 17.12.2020

Region: GB

Toxicity to fish (chronic)			
No data available			
Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	64742-49-0	921-024-6
EL50		3	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
2	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	-	927-510-4
EC50		3	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
3	cyclohexane	110-82-7	203-806-2
EC50		0.9	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	zinc oxide	1314-13-2	215-222-5
NOEC		82	µg/l
Duration of exposure		7	day(s)
Species with reference to	Daphnia magna		
Source	pH 6.0 CSR		
Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	64742-49-0	926-605-8
EL50		26	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
2	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	64742-49-0	921-024-6
EL50		30	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
3	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	-	927-510-4
EL50	10	30	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
4	cyclohexane	110-82-7	203-806-2
ErC50	>	4.425	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

Trade name: AC Powder Spray

Product no.: 13001384

Current version : 9.1.0, issued: 15.03.2022

Replaced version: 9.0.0, issued: 17.12.2020

Region: GB

Evaluation/classification	Based on available data, the classification criteria are not met.
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Toxicity to algae (chronic)			
No	Substance name	CAS no.	EC no.
1	zinc oxide	1314-13-2	215-222-5
NOEC		19	µg/l
Duration of exposure		7	day(s)
Species with reference to Source	Pseudokirchneriella subcapitata pH 8.0 CSR		
2	cyclohexane	110-82-7	203-806-2
NOEC		0.9	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

Bacteria toxicity	
No data available	

## 12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	butane	106-97-8	203-448-7
Type	aerobic biodegradation		
Value		50	%
Duration		3.46	d
Method	QSAR		
Source	ECHA		
2	propane	74-98-6	200-827-9
Type	aerobic biodegradation		
Value		50	%
Duration		3	d
Method	QSAR		
Source	ECHA		
Evaluation	readily biodegradable		
3	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	64742-49-0	926-605-8
Type	aerobic biodegradation		
Value		98	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily degradable		
4	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	64742-49-0	921-024-6
Value		98	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily biodegradable		
5	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	-	927-510-4
Type	aerobic biodegradation		
Value		83	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily biodegradable		

## 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)



**Trade name:** AC Powder Spray**Product no.:** 13001384**Current version :** 9.1.0, issued: 15.03.2022**Replaced version:** 9.0.0, issued: 17.12.2020**Region:** GB

No	Substance name	CAS no.	EC no.
1	propane	74-98-6	200-827-9
	log Pow	appr.	1.8
	Method	QSAR	
	Source	ECHA	
2	n-hexane	110-54-3	203-777-6
	log Pow	4	
	Reference temperature	20	°C
	Source	ECHA	

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

Results of PBT and vPvB assessment	
PBT assessment	No data available.
vPvB assessment	No data available.

**12.6 Endocrine disrupting properties**

No data available.

**12.7 Other adverse effects**

No data available.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

The listed waste code numbers, according to the European Waste Catalogue, are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company. Hand over only completely emptied aerosol cans for valuable substance recovery!

**Packaging**

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

**SECTION 14: Transport information****14.1 Transport ADR/RID/ADN**

Class	2
Classification code	5F
UN number	UN1950
Proper shipping name	AEROSOLS
Tunnel restriction code	D
Label	2.1
Environmentally hazardous substance mark	Symbol "fish and tree"

**14.2 Transport IMDG**

Class	2
UN number	UN1950
Proper shipping name	AEROSOLS
Technical name	Hydrocarbons, C6, isoalkanes, <5% n-hexane
EmS	F-D, S-U
Label	2.1
Marine pollutant mark	Symbol "fish and tree"
Comments	The outer packings (boxes or cartons) should comply with the Regulations of Packing Group II at least.

**14.3 Transport ICAO-TI / IATA**

Class	2.1
UN number	UN1950

**Trade name:** AC Powder Spray**Product no.:** 13001384**Current version :** 9.1.0, issued: 15.03.2022**Replaced version:** 9.0.0, issued: 17.12.2020**Region:** GB

Proper shipping name	Aerosols, flammable
Label	2.1
Comments	The outer packings (boxes or cartons) should comply with the Regulations of Packing Group II (IATA-Regulation 5.2 PI203).

**14.4 Other information**

No data available.

**14.5 Environmental hazards**

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

**14.6 Special precautions for user**

No data available.

**14.7 Maritime transport in bulk according to IMO instruments**

Not relevant

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.	No 3
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The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	cyclohexane	110-82-7	203-806-2	57, 75
2	n-hexane	110-54-3	203-777-6	75

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is subject to Part I of Annex I, risk category:	E2, P3a
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If the properties of the substance/product give rise to more than one classification, for the purposes of 2012/18/UE, the lowest qualifying quantities set out in Part 1 and Part 2 of Annex I shall apply.

**Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)**

VOC content	83.111 %
VOC-value	552.68 g/l
	5

**Other regulations**

Adhere to the national sanitary and occupational safety regulations when using this product.

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out.

**SECTION 16: Other information****Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.  
Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

**Trade name:** AC Powder Spray**Product no.:** 13001384**Current version :** 9.1.0, issued: 15.03.2022**Replaced version:** 9.0.0, issued: 17.12.2020**Region:** GB

National Threshold Limit Values of the corresponding countries as amended in each case.  
Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.  
The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

EUH066	Repeated exposure may cause skin dryness or cracking.
H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

**Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)**

C	Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
U	When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

**Creation of the safety data sheet**

UMCO GmbH

Tel.: +49 40 / 555 546 300 Fax: +49 40 / 555 546 357 e-mail: umco@umco.de

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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