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

1.1 Product identifier	
Product name	: UNIMOLY C 220 Spray
1.2 Relevant identified uses of t	he substance or mixture and uses advised against
Use of the Substance/Mixture	: Lubricant spray
Recommended restrictions on use	: Restricted to professional users.
1.3 Details of the supplier of the	e safety data sheet
Company	: SurTec Deutschland GmbH SurTec-Str. 2 64673 Zwingenberg Germany Tel.: +49-6251-171-700 Fax: +49-6251-171-800 mail@surtec.com
E-mail address of person responsible for the SDS	: STI.SDS@SurTec.com
National contact	: SurTec Deutschland GmbH SurTec-Str. 2 64673 Zwingenberg Germany Tel.: +49-6251-171-700 Fax: +49-6251-171-800 mail@surtec.com
1.4 Emergency telephone numb	er

1.4 Emergency telephone number

Emergency telephone : +49 6251 171 899 number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1

H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated.





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Se	erious eye damage, Cate	gory	1	H318:	Causes serious eye da	mage.
ex	Specific target organ toxicity - single exposure, Category 3, Central nervous system		H336:	May cause drowsiness	or dizziness.	
	Long-term (chronic) aquatic hazar Category 3		ard,	H412: effects	Harmful to aquatic life s	with long lasting
2.2 Lat	pel elements					
	abelling (REGULATION azard pictograms	(EC) :	No 1272/20	008)		
				<u>v</u>	≥	
			\sim			
Si	gnal word	:	Danger			
Ha	azard statements	:	H222 H229 H318 H336 H412		Extremely flammable Pressurised container Causes serious eye d May cause drowsines Harmful to aquatic life effects.	: May burst if heated. amage. s or dizziness.
Pr	ecautionary statements	:	Preventio	on:		
	·		P210		Keep away from heat, open flames and othe smoking.	
			P211		Do not spray on an op ignition source.	en flame or other
			P251 P280		Do not pierce or burn, Wear eye protection/1	
			Response	e:		
			P305 + P3	351 + P3	338 + P310 IF IN EYE with water for several contact lenses, if pres Continue rinsing. Imm POISON CENTER/ do	ent and easy to do. ediately call a
			Storage:			
			P410 + P4	112	Protect from sunlight. temperatures exceedi	

Hazardous components which must be listed on the label:

n-butyl acetate





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titanium tetrabutanolate

butan-1-ol

Hydrocarbons, C9, aromatics

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature

Propellant inorganic binding agent Solvent mixture solid lubricant

Components

Chemical name	CAS-No. EC-No.	Classification	specific concentration limit	Concentration (% w/w)
	Index-No. Registration number		M-Factor Notes Acute toxicity estimate	
n-butyl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29- XXXX	Flam. Liq.3; H226 STOT SE3; H336; EUH066		>= 10 - < 20
titanium tetrabutanolate	5593-70-4 227-006-8	Flam. Liq.3; H226 Skin Irrit.2; H315		>= 3 - < 10





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	01-2119967423-33- XXXX	Eye Dam.1; H318 STOT SE3; H336 STOT SE3; H335		
butan-1-ol	71-36-3 200-751-6 603-004-00-6 01-2119484630-38- XXXX	Flam. Liq.3; H226 Acute Tox.4; H302 Skin Irrit.2; H315 Eye Dam.1; H318 STOT SE3; H336 STOT SE3; H335	ATE (Oral): 500 mg/kg;	>= 1 - < 3
Hydrocarbons, C11- C13, isoalkanes, <2% aromatics	920-901-0 01-2119456810-40-	Asp. Tox.1; H304; EUH066		>= 1 - < 10
	XXXX			
Hydrocarbons, C9, aromatics	918-668-5 01-2119455851-35- XXXX	Flam. Liq.3; H226 STOT SE3; H335 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411; EUH066	Note P	>= 1 - < 2,5
zinc oxide	1314-13-2 215-222-5 030-013-00-7 01-2119463881-32- XXXX	Aquatic Acute1; H400 Aquatic Chronic1; H410	M-Factor: 1/1	>= 0,1 - < 0,25
Substances with a worl	kplace exposure limit :			
isobutane	75-28-5 200-857-2 601-004-00-0 01-2119485395-27- XXXX	Flam. Gas1A; H220 Press. GasCompr. Gas; H280	Note U (table 3.1), Note C	>= 50 - < 70
propane	74-98-6 200-827-9 601-003-00-5 01-2119486944-21- XXXX	Flam. Gas1A; H220 Press. GasCompr. Gas; H280	Note U (table 3.1)	>= 1 - < 10
butane	106-97-8 203-448-7	Flam. Gas1A; H220		>= 1 - < 10





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		601-004-00-0 01-2119474691-32- XXXX	Press. GasCompr. Gas; H280	Note U (table 3.1), Note C		
zinc sulph		1314-98-3 215-251-3 01-2119475779-15- XXXX	Not classified		>= 1 - < 10	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled :	Call a physician or poison control centre immediately. Remove person to fresh air. If signs/symptoms continue, get medical attention. Keep patient warm and at rest. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear. If breathing is irregular or stopped, administer artificial respiration.
In case of skin contact :	Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. Get medical attention immediately if irritation develops and persists. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact :	Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. Get medical attention immediately.
If swallowed :	Move the victim to fresh air. If accidentally swallowed obtain immediate medical attention. Keep respiratory tract clear. Do NOT induce vomiting. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	: Inhalation may provoke the following symptoms:
	Unconsciousness
	Dizziness





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			Drowsiness Headache Nausea Tiredness	
R	isks	:	Central nervous system depression	
4.3 Indication of any immediate Treatment		mec :	dical attention and special treatment ne Treat symptomatically.	eded
SECT	ION 5: Firefighting mea	es		
	tinguishing media uitable extinguishing media	:	ABC powder	
	nsuitable extinguishing edia	:	High volume water jet	
5.2 Sp	ecial hazards arising from	n the	e substance or mixture	
	pecific hazards during efighting	:	Fire Hazard Do not let product enter drains. Contains gas under pressure; may explore Beware of vapours accumulating to form concentrations. Vapours can accumulate	explosive
	azardous combustion roducts	:	Carbon oxides Sulphur oxides Metal oxides	
5.3 Ad	vice for firefighters			
	pecial protective equipment r firefighters	:	In the event of fire, wear self-contained b Use personal protective equipment. Expo decomposition products may be a hazard	osure to
Fu	urther information	÷	Standard procedure for chemical fires. Collect contaminated fire extinguishing w must not be discharged into drains. Cool containers/tanks with water spray.	ater separately. This

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.





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		Ensure adequate ventilation. Remove all sources of ignition. Do not breathe vapours or spray mist. Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Refer to protective measures listed in sections 7 and 8. Only qualified personnel equipped with suitable protective equipment may intervene.	
6.2 Enviro	nmental precautions		
Environmental precautions :		 Do not allow contact with soil, surface or ground water. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. 	
6.3 Metho	ds and material for c	ontainment and cleaning up	
Metho	ds for cleaning up	 Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal. Non-sparking tools should be used. 	

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do not b In case equipme Avoid co For pers Keep av Smoking applicat Wash ha handling Do not g Do not g Do not g	ontact with skin and eyes. sonal protection see section 8. way from fire, sparks and heated surfaces. g, eating and drinking should be prohibited in the ion area. ands and face before breaks and immediately after g the product. get in eyes or mouth or on skin. get on skin or clothing.
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		burn, even after use.						
Hygiene measures		: Wash face, hands and any exposed skin thorough handling.	y after					
7.2 Condi	tions for safe storage	including any incompatibilities						
Requirements for storage areas and containers		: BEWARE: Aerosol is pressurized. Keep away from exposure and temperatures over 50 °C. Do not op or throw into fire even after use. Do not spray on fl red-hot objects. Store in accordance with the partie national regulations.	en by force ames or					
Stora	ge class (TRGS 510)	: 2B, Aerosol cans and lighters						
	f ic end use(s) fic use(s)	: Specific instructions for handling, not required.						

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis	
isobutane	75-28-5	AGW	1.000 ppm 2.400 mg/m3	DE TRGS 900 (2006-01-01)	
	Peak-limit: ex	cursion factor (categ	ory): 4;(II)		
		MAK	1.000 ppm 2.400 mg/m3	DE DFG MAK (2008-07-01)	
	the embryo or	foetus, including de	re no data for an assessmen velopmental neurotoxicity, or r classification in one of the g	the currently	
n-butyl acetate	123-86-4	STEL	150 ppm 723 mg/m3	2019/1831/E U (2019-10-31)	
	Further inform	nation: Indicative			
		TWA	50 ppm 241 mg/m3	2019/1831/E U (2019-10-31)	
	Further inform	nation: Indicative			
		MAK	100 ppm 480 mg/m3	DE DFG MAK (2005-07-01)	
	Further information: Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed				
		AGW	62 ppm	DE TRGS	





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			300 mg/m3	900 (2022-06-23)			
	Peak-limit: excursion factor (category): 2;(I)						
	Further inform	nation: When there	is compliance with the OE of harming the unborn ch				
propane	74-98-6	MAK	1.000 ppm 1.800 mg/m3	DE DFG MAK (2006-07-01)			
	the embryo o	r foetus, including d	are no data for an assess evelopmental neurotoxicit or classification in one of t	ment of damage to y, or the currently			
		AGW	1.000 ppm 1.800 mg/m3	DE TRGS 900 (2006-01-01)			
	Peak-limit: ex	cursion factor (cate					
butan-1-ol	71-36-3	MAK	100 ppm 310 mg/m3	DE DFG MAK (2005-07-01)			
		nation: Damage to t r the BAT value is o	he embryo or foetus is un bserved	likely when the			
		AGW	100 ppm 310 mg/m3	DE TRGS 900 (2006-01-01)			
	Peak-limit: excursion factor (category): 1;(I)						
	Further information: When there is compliance with the OEL and biological						
	tolerance values, there is no risk of harming the unborn child						
butane	106-97-8	AGW	1.000 ppm 2.400 mg/m3	DE TRGS 900			
				(2006-01-01)			
	Peak-limit: ex	cursion factor (cate	gory): 4;(II)				
		MAK	1.000 ppm 2.400 mg/m3	DE DFG MAK (2008-07-01)			
	the embryo o	r foetus, including d	are no data for an assess evelopmental neurotoxicit or classification in one of t	y, or the currently he groups A - C			
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	Not Assigned	AGW	600 mg/m3	DE TRGS 900 (2009-02-16)			
	Peak-limit: ex	cursion factor (cate	gory): 2:(II)	•			
	Further inform	nation: Group expos	sure limit for hydrocarbon				
	Commission	MAK (aerosol)	ances, See also No. 2.9 c 5 mg/m3	DE DFG MAK			
		, ,	Ũ	(2023-07-01)			
	carcinogenic	for man but cannot e to the embryo or f	that cause concern that the be assessed conclusively oetus is unlikely when the	because of lack of			
		MAK (Vapour)	50 ppm 350 mg/m3	DE DFG MAK (2023-07-01)			
	Further inform	nation: Substances	that cause concern that th				





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Further occupational exposure limits

Description	Value type	Control parameters	Basis
	AGW	150 mg/m3	DE TRGS 900
Calculated according to			
TRGS 900 RCP-method			

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
butan-1-ol	71-36-3	1-butanol: 2 mg/g creatinine (Urine)	Before next shift	DE DFG BAT (2023-07- 01)
		1-butanol: 10 mg/g creatinine (Urine)	Immediately after exposition or after working hours	DE DFG BAT (2023-07- 01)
		1-butanol: 2 mg/g	Before next shift	TRGS 903





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I		creatinine	I	(2013-0

creatinine		(2013-09-
(Urine)		19)
1-butanol: 10 mg/g	Immediately after	TRGS 903
creatinine	exposure or after	(2013-09-
(Urine)	working hours	19)

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

	• •			
Substance name	End Use	Exposure routes	Potential health effects	Value
n-butyl acetate	Workers	Inhalation	Long-term systemic effects	300 mg/m3
	Workers	Inhalation	Acute systemic effects	600 mg/m3
	Workers	Dermal	Long-term local effects	11 mg/cm2
titanium tetrabutanolate	Workers	Inhalation	Long-term systemic effects	127 mg/m3
butan-1-ol	Workers	Inhalation	Long-term local effects	310 mg/m3
Hydrocarbons, C9, aromatics	Workers	Skin contact	Long-term systemic effects	25 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	150 mg/m3
zinc sulphide	Workers	Inhalation	Long-term systemic effects	5 mg/m3
	Workers	Dermal	Long-term systemic effects	83 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

		•
Substance name	Environmental Compartment	Value
n-butyl acetate	Fresh water	0,18 mg/l
	Marine water	0,018 mg/l
	Microbiological Activity in Sewage	35,6 mg/l
	Treatment Systems	
	Fresh water sediment	0,981 mg/kg
	Marine sediment	0,0981 mg/kg
	Soil	0,09 mg/kg
titanium tetrabutanolate	Fresh water	0,08 mg/l
	Intermittent use/release	2,25 mg/l
	Marine water	0,008 mg/l
	Sewage treatment plant	65 mg/l
	Fresh water sediment	0,069 mg/kg
	Marine sediment	0,007 mg/kg
	Soil	0,017 mg/kg
butan-1-ol	Fresh water	0,082 mg/l
	Marine water	0,008 mg/l
	Intermittent use/release	2,25 mg/l
	Microbiological Activity in Sewage	2476 mg/l
	Treatment Systems	
	Fresh water sediment	0,324 mg/kg dry





201,9 mg/kg

103,4 mg/kg

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			weight (d.w.)
		Marine sediment	0,032 mg/kg dry weight (d.w.)
		Soil	0,017 mg/kg dr weight (d.w.)
zinc s	zinc sulphide	Fresh water	0,0206 mg/l
		Marine water	0,0061 mg/l
		Microbiological Activity in Sewage Treatment Systems	0,1 mg/l
		Fresh water sediment	117,8 mg/kg
		Marine sediment	56,5 mg/kg
		Soil	35,6 mg/kg
zinc o	zinc oxide	Fresh water	0,0179 mg/l
		Marine water	0,009 mg/l
		Sewage treatment plant	0,1245 mg/l
		Fresh water sediment	182,8 mg/kg

8.2 Exposure controls

Engineering measures

Use only in an area equipped with explosion proof exhaust ventilation. Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Soil

Marine sediment

Personal protective equipment

Eye/face protection	:	Tightly fitting safety goggles
Hand protection Material Break through time Protective index	:	Nitrile rubber > 10 min Class 1
Remarks	:	Wear protective gloves. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
Skin and body protection	:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Respiratory protection	:	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Short term only





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Fi	lter type	: Filter type A-P					
Protective measures		: The type of protective equipment to the concentration and amount of at the specific workplace.					

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

5.1	Physical state	:	aerosol
	Colour	:	grey
	Odour	:	characteristic
	Odour Threshold	:	No data available
Valu	ues refer to the propellant:		
	Melting point/range	:	No data available
	Boiling point/boiling range	:	< -10 °C (1.013 hPa)
	Flammability (solid, gas)	:	Extremely flammable aerosol.
	Upper explosion limit / Upper flammability limit	:	11,2 %(V)
	Lower explosion limit / Lower flammability limit	:	1,5 %(V)
	Flash point	:	-80 °C Method: closed cup
	Auto-ignition temperature	:	> 350 °C
	Decomposition temperature	:	No data available
	рН	:	Not applicable substance/mixture reacts with water
	Viscosity Viscosity, dynamic	:	No data available
	Viscosity, kinematic	:	No data available
	Solubility(ies)		





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V	Vater solubility	:	insoluble	
S	colubility in other solvents	s :	No data available	
	ition coefficient: n- nol/water	:	No data available	
Vapo	our pressure	:	2.700 hPa (20 °C)	
Rela	tive density	:	0,60 (20 °C) Reference substance: Water The value is calculated	
Den	sity	:	0,60 g/cm3 (20 °C)	
Bulk	density	:	No data available	
Rela	tive vapour density	:	No data available	
	r information osives	:	Not explosive	
Oxid	lizing properties	:	No data available	
Self-	ignition	:	No data available	
Eva	poration rate	:	No data available	
Subl	imation point	:	No data available	

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	: No dangerous reaction known under conditions of normal use.
10.4 Conditions to avoid	
Conditions to avoid	: Heat, flames and sparks.

Conditions to avoid	:	Heat, flames and sparks.
		Strong sunlight for prolonged periods.
		Risk of receptacle bursting.



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10.5 Incompatible materials

Materials to avoid

: Oxidizing agents Acids

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

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

Acute toxicity		
Product:		
Acute oral toxicity	:	Remarks: Effects due to ingestion may include:
		Symptoms: Central nervous system depression
		Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Remarks: Respiration of solvent vapour may cause dizziness. Toxic by inhalation. Irritating to respiratory system.
		Symptoms: Inhalation may provoke the following symptoms:, Respiratory disorder, Local irritation, Respiratory disorders, Dizziness, Drowsiness, Vomiting, Fatigue, Vertigo, Central nervous system depression
Acute dermal toxicity	:	Symptoms: Redness, Local irritation
Components:		
n-butyl acetate:		
Acute oral toxicity	:	LD50 (Rat): 10.768 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 21 mg/l Exposure time: 4 h Test atmosphere: vapour Method: OECD Test Guideline 403 GLP: yes Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	:	LD50 (Rabbit): > 17.600 mg/kg





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	anium tetrabutanolate: cute oral toxicity	:	LD50 (Rat): > 2.000 mg/kg Assessment: The substance or r toxicity	nixture has no acute oral
Ac	cute inhalation toxicity	:	LC50 (Mouse): > 10 mg/l Exposure time: 4 h Test atmosphere: dust/mist Test substance: Butan-1-ol Assessment: The substance or r inhalation toxicity	nixture has no acute
Ac	cute dermal toxicity	:	(Rabbit): 5.300 mg/kg	
bı	ıtan-1-ol:			
Ac	cute oral toxicity	:	Acute toxicity estimate: 500 mg/k Assessment: The component/mi single ingestion.	
Ac	cute inhalation toxicity	:	LC50 (Rat): > 17,76 mg/l Exposure time: 4 h Test atmosphere: vapour Method: OECD Test Guideline 4 Assessment: The substance or r inhalation toxicity	
Ac	cute dermal toxicity	:	LD50 (Rabbit): 3.430 mg/kg Method: OECD Test Guideline 4 GLP: yes	02
Н	/drocarbons, C9, aromat	tics:		
-	cute oral toxicity	:	LD50 (Rat): 4.200 mg/kg Method: OECD Test Guideline 4	01
Ac	cute dermal toxicity	:	LD50 (Rabbit): > 2.000 mg/kg Method: OECD Test Guideline 4 Assessment: The component/mi single contact with skin.	
zi	nc oxide:			
Ac	cute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 4	01
Ac	cute inhalation toxicity	:	LC50 (Rat): > 5,7 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 4	03





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		Assessment: The substance or inhalation toxicity	r mixture has no acute	
Acu	te dermal toxicity	: LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline GLP: yes Assessment: The substance or toxicity		
isol	butane:			
Acu	te inhalation toxicity	: LC50 (Rat): 658 mg/l Exposure time: 4 h Test atmosphere: gas		
but	ane:			
Acu	te inhalation toxicity	: LC50 (Rat): 658 mg/l Exposure time: 4 h Test atmosphere: gas		
zine	c sulphide:			
Acu	te oral toxicity	: LD50 (Rat): > 15.000 mg/kg		
Ski	n corrosion/irritation			
<u>Pro</u>	duct:			
Rer	narks	: Irritating to skin.		
<u>Cor</u>	nponents:			
	utyl acetate:			
	ecies essment	: Rabbit : No skin irritation		
	hod	: OECD Test Guideline 404		
Res	sult	: Repeated exposure may cause	e skin dryness or cracking.	
tita	nium tetrabutanolate:			
•	ecies	: Rabbit		
Ass Res	essment sult	Irritating to skin.Irritating to skin.		
but	an-1-ol:			
•	ecies	: Rabbit		
Ass Res	essment sult	: Irritating to skin. : Irritating to skin.		
		U ·		





UNIMOLY C 220 Spray Version Revision Date: Date of last issue: -Print Date: Date of first issue: 01.08.2024 01.08.2024 1.0 01.08.2024 Hydrocarbons, C11-C13, isoalkanes, <2% aromatics: Result : Repeated exposure may cause skin dryness or cracking. Hydrocarbons, C9, aromatics: Rabbit Species Method **OECD** Test Guideline 404 : Result : Mild skin irritation Result : Repeated exposure may cause skin dryness or cracking. zinc oxide: Species Rabbit : Assessment No skin irritation 5 Method **OECD** Test Guideline 404 2 Result 2 No skin irritation Serious eye damage/eye irritation Product: Remarks Risk of serious damage to eyes. : **Components:** n-butyl acetate: Species Rabbit : Assessment No eye irritation Method **OECD** Test Guideline 405 Result 2 No eye irritation GLP • yes titanium tetrabutanolate: Species : Rabbit Assessment : Risk of serious damage to eyes. Result : Risk of serious damage to eyes. butan-1-ol: Species : Rabbit Assessment Risk of serious damage to eyes. : Method **OECD Test Guideline 405** : Result : Risk of serious damage to eyes. GLP • yes Hydrocarbons, C9, aromatics: Species : Rabbit Assessment No eye irritation : Result : No eye irritation





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zinc oxide:

Species	:	Rabbit
Assessment	:	No eye irritation
Method	:	OECD Test Guideline 405
Result	:	No eye irritation
GLP	:	yes

Respiratory or skin sensitisation

Product:

Remarks

: This information is not available.

Components:

n-butyl acetate:

Test Type :	Maximisation Test
Exposure routes :	Dermal
Species :	Guinea pig
Assessment :	Does not cause skin sensitisation.
Method :	OECD Test Guideline 406
Result :	Does not cause skin sensitisation.

titanium tetrabutanolate:

Species :	Mouse
Assessment :	Did not cause sensitisation on laboratory animals.
Method :	Regulation (EC) No. 440/2008, Annex, B.42 (LLNA)
Result :	Did not cause sensitisation on laboratory animals.
GLP :	yes

butan-1-ol:

Species :	Mouse
Assessment :	Did not cause sensitisation on laboratory animals.
Method :	OECD Test Guideline 429
Result :	Did not cause sensitisation on laboratory animals.

Hydrocarbons, C9, aromatics:

Maximisation Test
Guinea pig
Does not cause skin sensitisation.
OECD Test Guideline 406
Does not cause skin sensitisation.

zinc oxide:

Test Type

: Maximisation Test





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Specie Asses Metho Result GLP	sment d	:	Guinea pig Does not cause skin sensitisation. OECD Test Guideline 406 Does not cause skin sensitisation. yes	
Germ	cell mutagenicity			
<u>Produ</u>	<u>ict:</u>			
Genot	oxicity in vitro	:	Remarks: No data available	
Genot	oxicity in vivo	:	Remarks: No data available	
Comp	oonents:			
n-but	yl acetate:			
Genot	oxicity in vitro	:	Test Type: Ames test Test system: Salmonella typhimuriu Method: OECD Test Guideline 471 Result: negative	um
			Test Type: Chromosome aberration Test system: Chinese hamster cells Method: OECD Test Guideline 473 Result: negative	5
Genot	oxicity in vivo	:	Species: Mouse Application Route: Oral Method: OECD Test Guideline 474 Result: negative	
-	cell mutagenicity- sment	:	Tests on bacterial or mammalian co mutagenic effects., Animal testing o effects.	
titaniı	um tetrabutanolate:			
Germ	cell mutagenicity- sment	:	Tests on bacterial or mammalian co mutagenic effects.	ell cultures did not show
butan	-1-ol:			
	oxicity in vitro	:	Test Type: In vitro mammalian cell Test system: Chinese hamster lung Metabolic activation: with and witho Method: OECD Test Guideline 476 Result: negative	cells out metabolic activation
			Test Type: Chromosome aberration	n test in vitro





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				Test system: Chinese hamster lung cells Result: negative	
	Genote	oxicity in vivo	:	Test Type: in vivo assay Species: Mouse (male and female) Application Route: Oral Method: OECD Test Guideline 474 Result: negative	
	Hydro	carbons, C9, aromat	tics:		
	Germ Assess	cell mutagenicity- sment	:	Animal testing did not show any mutagen	lic effects.
	zinc o	xide:			
	Germ Asses	cell mutagenicity- sment	:	Tests on bacterial or mammalian cell cult mutagenic effects.	ures did not show
	Carcir	nogenicity			
	<u>Produ</u>	<u>ct:</u>			
	Remai	rks	:	No data available	
	<u>Comp</u>	onents:			
	n-buty	/l acetate:			
	Carcin Asses	ogenicity - sment	:	Not classifiable as a human carcinogen.	
	Hydro	carbons, C9, aromat	tics:		
	Carcin Asses	ogenicity - sment	:	Not classifiable as a human carcinogen.	
	zinc o	xide:			
	Carcin Asses	ogenicity - sment	:	Not classifiable as a human carcinogen.	
	Repro	ductive toxicity			
	<u>Produ</u>	<u>ct:</u>			
	Effects	s on fertility	:	Remarks: No data available	
		s on foetal pment	:	Remarks: No data available	





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<u>Con</u>	nponents:		
	utyl acetate: cts on fertility	: Test Type: Two-generation stu Species: Rat Application Route: inhalation (General Toxicity - Parent: NO/ General Toxicity F1: NOAEC: General Toxicity F2: NOAEC: Method: OECD Test Guideline Result: Embryotoxic effects ar offspring were detected.	vapour) AEC: 750 mg/l 750 mg/l 750 mg/l e 416
•	roductive toxicity - essment	 Fertility - No evidence of adverse effect or on development, based on - Teratogenicity - No toxicity to reproduction 	s on sexual function and fertility, animal experiments.
Rep	nium tetrabutanolate: roductive toxicity - essment	: - Fertility - No toxicity to reproduction	
Rep	rocarbons, C9, aroma roductive toxicity - essment	atics: : - Fertility - No toxicity to reproduction	
Rep	: oxide: roductive toxicity - essment	 Fertility - No toxicity to reproduction Teratogenicity - No toxicity to reproduction 	
STC)T - single exposure		
	<mark>duct:</mark> narks	: No data available	
<u>Con</u>	nponents:		
Expo Targ	u tyl acetate: osure routes get Organs essment	InhalationCentral nervous systemThe substance or mixture is cl	assified as specific target organ





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		toxicant, single exposure, cate	egory 3 with narcotic effects.	
titani	um tetrabutanolate:			
Targe	sure routes et Organs ssment		on., The substance or mixture is gan toxicant, single exposure, act irritation.	
Targe	sure routes et Organs ssment	 Ingestion, Inhalation Nervous system May cause drowsiness or dizzentiation mixture is classified as specific exposure, category 3 with narrowsine 	ic target organ toxicant, single	
butar	n-1-ol:			
Targe	sure routes et Organs ssment	 Inhalation Respiratory system The substance or mixture is c toxicant, single exposure, cate irritation. 	elassified as specific target organ egory 3 with respiratory tract	
Targe	sure routes et Organs ssment	 Inhalation Central nervous system The substance or mixture is c toxicant, single exposure, cate 	classified as specific target organ egory 3 with narcotic effects.	
Hydr	ocarbons, C9, aroma	tics:		
Targe	sure routes et Organs ssment	 Inhalation Respiratory system May cause respiratory irritation 	n.	
Targe	sure routes et Organs ssment	InhalationCentral nervous systemMay cause drowsiness or diza	ziness.	
zinc	oxide:			
Asse	ssment	: The substance or mixture is n organ toxicant, single exposu	not classified as specific target re.	
STO	Γ - repeated exposure	9		
<u>Prod</u> Rema		: No data available		





UNIMO	LY C 220 Spray		
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Com	ponents:		
n-bu	tyl acetate:		
Asse	essment	: The substance or mixture is not cla organ toxicant, repeated exposure	
buta	n-1-ol:		
Asse	essment	: The substance or mixture is not cla organ toxicant, repeated exposure	
Hydr	rocarbons, C9, aroma	ics:	
Asse	essment	: The substance or mixture is not cla organ toxicant, repeated exposure	
zinc	oxide:		
Asse	essment	: The substance or mixture is not cla organ toxicant, repeated exposure	
Repe	eated dose toxicity		
Prod			
Rem	arks	: This information is not available.	
Com	ponents:		
n-bu	tyl acetate:		
Spec		: Rat	
NOA Appli	ication Route	: 125 mg/kg : Oral	
Hvdı	rocarbons, C9, aroma	ics:	
-	eated dose toxicity -	: Repeated or prolonged exposure r	may cause skin irritation and
•	essment	dermatitis, due to degreasing prop	
Aspi	ration toxicity		
<u>Prod</u> This	luct: information is not availa	able.	
Com	Components:		
	tyl acetate:		
No a	spiration toxicity classif	cation	





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titanium tetrabutanolate:

No aspiration toxicity classification

butan-1-ol:

No aspiration toxicity classification

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Hydrocarbons, C9, aromatics:

May be fatal if swallowed and enters airways.

zinc oxide:

No aspiration toxicity classification

11.2 Information on other hazards

Endocrine disrupting properties

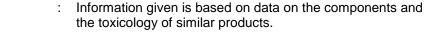
Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Product:

Remarks	 Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance. Danger of very serious irreversible effects.
Components:	
zinc sulphide:	
Remarks	: Information given is based on data on the components and







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SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish	:	Remarks: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available
Toxicity to algae/aquatic plants	:	Remarks: No data available
Toxicity to microorganisms	:	Remarks: No data available
Components:		
n-butyl acetate:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 18 mg/l Exposure time: 96 h Test Type: flow-through test Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia (water flea)): 44 mg/l Exposure time: 48 h Test Type: static test
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 397 mg/l Exposure time: 72 h Test Type: static test
Toxicity to microorganisms	:	EC50 (Tetrahymena pyriformis): 356 mg/l Exposure time: 40 h Test Type: Growth inhibition
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 23 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: Reproduction Test GLP: yes
titanium tetrabutanolate:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 1.740 mg/l Exposure time: 96 h Test substance: Butan-1-ol
Toxicity to daphnia and other	:	EC50 (Daphnia magna (Water flea)): 1.983 mg/l
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	aquatic	invertebrates		Exposure time: 48 h Test substance: Butan-1-ol	
	Toxicity plants	y to algae/aquatic	:	EC50 (Pseudokirchneriella subcapitata (g mg/l Exposure time: 96 h Test substance: Butan-1-ol Method: OECD Test Guideline 201	green algae)): 225
	butan-	1-ol:			
		y to fish	:	LC50 (Pimephales promelas (fathead min Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes	now)): 1.376 mg/l
		y to daphnia and other invertebrates	:	EC50 (Daphnia magna (Water flea)): 1.3 Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes	28 mg/l
	Toxicity plants	y to algae/aquatic	:	EC50 (Pseudokirchneriella subcapitata (g mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes	green algae)): 225
	Toxicity	y to microorganisms	:	EC10 (Pseudomonas putida): 2.476 mg/l Exposure time: 17 h Test Type: static test Method: DIN 38 412 Part 8	
	aquatic	y to daphnia and other c invertebrates ic toxicity)	:	NOEC: 4,1 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: semi-static test Method: OECD Test Guideline 211 GLP: yes	
	Hydrod	carbons, C9, aromati	cs:		
	-	y to fish	:	LC50 (Oncorhynchus mykiss (rainbow tro Exposure time: 96 h	out)): 9,22 mg/l
		y to daphnia and other invertebrates	:	EC50 (Daphnia magna (Water flea)): 6,14 Exposure time: 48 h	4 mg/l





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Eco	toxicology Assessment	t		
	e aquatic toxicity	:	Toxic to aquatic life.	
Chro	onic aquatic toxicity	:	Toxic to aquatic life with long lasting	effects.
zinc	oxide:			
Toxi	city to fish	:	LC50 (Danio rerio (zebra fish)): 1,55 Exposure time: 96 h Test Type: static test	mg/l
	city to daphnia and other atic invertebrates	• :	EC50 (Daphnia magna (Water flea)): Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202	1 mg/l
Toxic plant	city to algae/aquatic ts	:	EC50 (Pseudokirchneriella subcapita mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes	ta (green algae)): 0,136
M-Fa toxic	actor (Acute aquatic ity)	:	1	
Toxi	city to microorganisms	:	EC50 (activated sludge): > 1.000 mg Exposure time: 3 h Method: OECD Test Guideline 209 GLP: yes	/1
aqua	city to daphnia and other atic invertebrates onic toxicity)	• :	0,04 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea Test Type: semi-static test Method: OECD Test Guideline 211)
M-Fa toxic	actor (Chronic aquatic ity)	:	1	
zinc	sulphide:			
Toxi	city to fish	:	LC50 (Brachydanio rerio (zebrafish)) Exposure time: 96 h Method: OECD Test Guideline 203	: > 100 mg/l
	city to daphnia and other atic invertebrates	• :	EC50 (Daphnia magna (Water flea)): Exposure time: 48 h Method: OECD Test Guideline 202	> 100 mg/l
Toxi	city to algae/aquatic	:	EC50 (algae): > 100 mg/l	





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plant	5		Exposure time: 72 h		
12.2 Pers	istence and degrada	bility			
Prod	uct:				
Biode	egradability	:	Remarks: No data available		
	ico-chemical vability	:	Remarks: No data available		
Com	ponents:				
n-but	tyl acetate:				
Biode	egradability	:	Test Type: Primary biodegradation Result: rapidly biodegradable Biodegradation: 83 % Exposure time: 28 d		
			Method: OECD Test Guideline 301D		
					
	um tetrabutanolate:		Depute Deputie biodegradable		
BIOGE	egradability		Result: Readily biodegradable. Test substance: Butan-1-ol Remarks: The organic components of biodegradable.	the product are	
buta	n-1-ol:				
	egradability	:	Test Type: aerobic Inoculum: activated sludge Result: rapidly biodegradable Biodegradation: > 92 % Exposure time: 28 d		
Hydr	ocarbons, C9, aroma	atice			
•	egradability		Result: rapidly biodegradable		
Diout	gradability	•	Result rupidly biodegradable		
zinc	oxide:				
	egradability	:	Remarks: The methods for determinin not applicable to inorganic substances		
12.3 Bioa	ccumulative potentia	al			
Prod	-				
	ccumulation	:	Remarks: No data available		





UNIN	IOLY C 220 Spray				
		Det		Drint Data:	
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<u>C</u>	Components:				
n	-butyl acetate:				
	Partition coefficient: n-	:	log Pow: 2,3 (25 °C)		
0	octanol/water				
			Method: OECD Test Guideline 117 GLP: yes		
			- ,		
ti	itanium tetrabutanolate:				
	Partition coefficient: n-	:	log Pow: 0,84 - 0,88		
0	octanol/water				
h	outan-1-ol:				
	Partition coefficient: n-	:	log Pow: 1 (25 °C)		
	octanol/water	·	pH: 7		
			Method: OECD Test Guideline 117		
			GLP: yes		
L	lydrocarbons, C11-C13, is	oolk	anos 29% aromatics:		
	Partition coefficient: n-		log Pow: 1,99 - 7,22		
	octanol/water	•	log 1 ow. 1,00 7,22		
	lydrocarbons, C9, aromat	ics:			
	Partition coefficient: n-	:	log Pow: 3,7 - 4,5		
0	octanol/water				
is	sobutane:				
	Partition coefficient: n-	:	log Pow: 2,88		
0	octanol/water		Method: OECD Test Guideline 107		
-	oropane:				
	Partition coefficient: n-	:	log Pow: 2,36		
Ū					
b	outane:				
F	Partition coefficient: n-	:	log Pow: 2,89		
0	ctanol/water		Method: OECD Test Guideline 107		
40.4-	Andrika in a sil				
1 2.4 N	Aobility in soil				
	Product:				
Ν	Aobility	:	Remarks: No data available		
C	Distribution among	:	Remarks: No data available		
	environmental compartment	S			

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12.5 Results of PBT and vPvB assessment

Product: Assessment	:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.		
Components:				
n-butyl acetate: Assessment	:	Non-classified PBT substance. Non-classified vPvB substance		
zinc oxide:				
Assessment	:	Remarks: Not applicable		
12.6 Endocrine disrupting properties				
Product:				
Assessment	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.		
12.7 Other adverse effects				
Product:				
Additional ecological information	:	Harmful to aquatic life with long lasting effects.		

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Product	 Do not dispose of with domestic refuse. Dispose of as hazardous waste in compliance with local and national regulations.
	Waste codes should be assigned by the user based on the application for which the product was used.
Contaminated packaging	 Packaging that is not properly emptied must be disposed of as the unused product. Offer empty spray cans to an established disposal company.





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Wast	e Code	Pressurized container: Do not pier The following Waste Codes are on : unused product, packagings not co 16 05 04**, gases in pressure cont containing hazardous substances	nly suggestions:					

SECTION 14: Transport information

14.1 UN number or ID number

	ADN	:	UN 1950
	ADR	:	UN 1950
	RID	:	UN 1950
	IMDG	:	UN 1950
	ΙΑΤΑ	:	UN 1950
14.2	2 UN proper shipping name		
	ADN		AEROSOLS
	ADR		AEROSOLS
	RID		AEROSOLS
	IMDG	:	AEROSOLS
	IATA		Aerosols, flammable
1/ 3	Transport hazard class(es)	•	Acrosols, naminable
14.5			
	ADN	:	2
	ADR	:	2
	RID	:	2
	IMDG	:	2.1
	ΙΑΤΑ	:	2.1
14.4	Packing group		
	ADN		
	Packing group Classification Code Labels	:	Not assigned by regulation 5F 2.1
	ADR Packing group Classification Code Labels	:	Not assigned by regulation 5F 2.1



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006, as amended by

Commission Regulation (EU) 2020/878 - DE



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	Tunne	l restriction code	:	(D)		
RID Packing group Classification Code Hazard Identification Number Labels		: : r : :	Not assigned by regulation 5F 23 2.1			
IMDG Packing group Labels EmS Code		:	Not assigned by regulation 2.1 F-D, S-U			
		Cargo) ag instruction (cargo	:	203		
	Packin	instruction (LQ)	:	Y203 Not assigned by regulation Flammable Gas		
	Packin (passe Packin	Passenger) ag instruction anger aircraft) ag instruction (LQ) ag group	:	203 Y203 Not assigned by regulation Flammable Gas		
14.5	5 Enviro	onmental hazards				
	ADN Enviro	nmentally hazardous	:	no		
	ADR Enviro	nmentally hazardous	:	no		
	RID Enviro	nmentally hazardous	:	no		
	IMDG Marine pollutant		:	no		
14.6 Special precautions for user						
The transport classification(s) provided herein are for informational purposes only, and solely						

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Remarks

: Not applicable for product as supplied.

SECTION 15: Regulatory information

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





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the		e manufacture, placing on in dangerous substances, x XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 75 If you intend to use this product as tattoo ink, please contact your vendor.
Cor	ACH - Candidate List of acern for Authorisation (<i>)</i> J SVHC)	Substances of Very High Article 59).	:	This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
dep	gulation (EC) No 1005/20 lete the ozone layer C 1005/2009)	009 on substances that	:	Not applicable
poll	gulation (EU) 2019/1021 utants (recast) J POP)	on persistent organic	:	Not applicable
Parl imp	gulation (EU) No 649/20 [,] liament and the Council ort of dangerous chemic J PIC)	concerning the export and	:	Not applicable
(An	ACH - List of substances nex XIV) J. REACH-Annex XIV)	s subject to authorisation	:	Not applicable
	gulation (EU) 2019/1148 losives precursors	on the marketing and use	of :	Not applicable
		F	2	
		F	P5c	
Parl maj	reso III: Directive 2012/1 liament and of the Coun or-accident hazards invo stances.	cil on the control of	P3a	FLAMMABLE AEROSOLS
				a brand of





UNIMOLY C 220 Spray Date of last issue: -Version **Revision Date:** Print Date: Date of first issue: 01.08.2024 01.08.2024 1.0 01.08.2024 18 Liquefied flammable gases (including LPG) and natural gas Water hazard class : WGK 1 slightly hazardous to water (Germany) Classification according to AwSV, Annex 1 (5.2) TA Luft List (Germany) : 5.2.1: Total dust: others: 6,77 % 5.2.2: Inorganic substances in powdered form: Not applicable 5.2.4: Inorganic substances in gaseous form: Not applicable 5.2.5: Organic Substances: Class 1: < 0,01 % others: 1,43 % 5.2.7.1.1: Carcinogenic substance: Class 3: 0,06 % 5.2.7.1.1: Quartz fine dust PM4: others: < 0,01 % 5.2.7.1.1: Formaldehyde: Not applicable 5.2.7.1.1: fibres: Not applicable 5.2.7.2: Poorly degradable, easily enrichable and highly toxic organic substances: Not applicable Directive 2010/75/EU of 24 November 2010 on industrial Volatile organic compounds : emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 93,16 %

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

This information is not available.

SECTION 16: Other information

Full text of H-Statements

H220	:	Extremely flammable gas.
H226	:	Flammable liquid and vapour.





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H280 H302 H304 H315 H318 H335 H336 H400 H410 H411 EUH0		: Ham : May : Caus : Caus : May : May : Very : Very : Toxio	ains gas under pressure; m nful if swallowed. be fatal if swallowed and er ses skin irritation. ses serious eye damage. cause respiratory irritation. cause drowsiness or dizzine toxic to aquatic life. toxic to aquatic life with lon c to aquatic life with long las eated exposure may cause	nters airways. ess. g lasting effects. sting effects.

Full text of other abbreviations

Note 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.
Note P	:	The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260- P262-P301 + P310-P331 shall apply.
Note U (table 3.1)	:	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. The following codes are assigned: Press. Gas (Comp.) Press. Gas (Liq.) Press. Gas (Ref. Liq.) Press. Gas (Diss.) Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).
2019/1831/EU	:	Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values
DE DFG BAT DE DFG MAK DE TRGS 900 TRGS 903 2019/1831/EU / TWA	: : : : : : : : : : : : : : : : : : : :	Germany. MAK BAT Annex XIII Germany. MAK BAT Annex IIa Germany. TRGS 900 - Occupational exposure limit values. TRGS 903 - Biological limit values Limit Value - eight hours





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DE D	/1831/EU / STEL FG MAK / MAK RGS 900 / AGW	Short term exposure limitMAK valueTime Weighted Average	

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:		Classification procedure:
Aerosol 1	H222, H229	Based on product data or assessment
Eye Dam. 1	H318	Calculation method
STOT SE 3	H336	Calculation method
Aquatic Chronic 3	H412	Calculation method

Relevant changes compared to the last edition are highlighted at the left margin. This version replaces all previous editions.





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