SAFETY DATA SHEET

HEAVY DUTY ZINC GALVE SPRAY

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law, and based on EU 2015/830

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

1.1. Product identifier

Product form Product name UFI Product code	 Mixture R-239 HEAVY DUTY ZINC GALVE W54S-9530-C005-4JGW 002777064681
Type of product	: Paint
Vaporizer	: Aerosol
Product group	: End product

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

1.2.1. Relevant identified uses

Intended for general public

Main use category Use of the substance/mixture : Consumer use, Professional use, Industrial use: Spraying paint (spray can)

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

TYGRIS LTD UNIT 31 KYLE ROAD INDUSTRIAL ESTATE IRVINE SCOTLAND T 01294 311066 Jon.Butcher@tygrisindustrial.com

1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aerosol, Category 1	H222;H229
Serious eye damage/eye irritation, Category 2	H319
Specific target organ toxicity – Single exposure, Category 3,	H336
Narcosis	
Hazardous to the aquatic environment – Chronic Hazard,	H411
Category 2	
Full text of H- and EUH-statements: see section 16	

Adverse physicochemical, human health and environmental effects

Pressurised container: May burst if heated. Extremely flammable aerosol. May cause drowsiness or dizziness. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.



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2.2. Label elements

Labelling according to Regulation (EC) No. 1272	2/2008 [CLP]
Hazard pictograms (CLP)	
	GHS02 GHS07 GHS09
Signal word (CLP)	: Danger
Contains	: Acetone
Hazard statements (CLP)	: H222 - Extremely flammable aerosol.
	H229 - Pressurised container: May burst if heated.
	H319 - Causes serious eye irritation.
	H336 - May cause drowsiness or dizziness.
	H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: 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.
	P261 - Avoid breathing vapours, spray.
	P271 - Use only outdoors or in a well-ventilated area.
	P280 - Wear protective gloves, eye protection.
	P264 - Wash hands thoroughly after handling.
	P312 - Call a POISON CENTER, doctor if you feel unwell.
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
	P337+P313 - If eye irritation persists: Get medical advice/attention.
	P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C, 122 °F.
	F. P501 - Dispose of contents/ container in accordance with local regulations.
EUH-statements	: EUH066 - Repeated exposure may cause skin dryness or cracking.
Child-resistant fastening	: Not applicable
Tactile warning	: Not applicable
2.2. Other herorde	· · · · · · · · · · · · · · · · · · ·

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Petroleum gases, liquefied (Contains < 0.1% 1,3- butadiene) substance with national workplace exposure limit(s) (BE, CZ, GB, GR, HR, TR) (Note K)	CAS-No.: 68476-85-7 EC-No.: 270-704-2 EC Index-No.: 649-202-00-6	25 – 50	Flam. Gas 1A, H220 Press. Gas



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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acetone substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, AL, IS, NO, MK, RS, CH, TR); substance with a Community workplace exposure limit	CAS-No.: 67-64-1 EC-No.: 200-662-2 EC Index-No.: 606-001-00-8 REACH-no: 01-2119471330- 49	25 – 50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066
Zinc powder - zinc dust (stabilised) substance with national workplace exposure limit(s) (SK)	CAS-No.: 7440-66-6 EC-No.: 231-175-3 EC Index-No.: 030-001-01-9 REACH-no: 01-2119467174- 37	10 – 20	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Xylene (mixture of isomers) substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, AL, IS, NO, MK, RS, CH, TR); substance with a Community workplace exposure limit (Note C)	CAS-No.: 1330-20-7 EC-No.: 215-535-7 EC Index-No.: 601-022-00-9 REACH-no: 01-2119488216- 32	5 – 10	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304
n-butyl acetate substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, IS, MK, RS, CH); substance with a Community workplace exposure limit	CAS-No.: 123-86-4 EC-No.: 204-658-1 EC Index-No.: 607-025-00-1 REACH-no: 01-2119485493- 29	3.5 – 5	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066
1-methoxypropan-2-ol substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, AL, IS, NO, MK, RS, CH, TR); substance with a Community workplace exposure limit	CAS-No.: 107-98-2 EC-No.: 203-539-1 EC Index-No.: 603-064-00-3 REACH-no: 01-2119457435- 35	1 – 2.5	Flam. Liq. 3, H226 STOT SE 3, H336
Ethylbenzene substance with national workplace exposure limit(s) (AT, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, AL, IS, NO, MK, RS, CH, TR); substance with a Community workplace exposure limit	CAS-No.: 100-41-4 EC-No.: 202-849-4 EC Index-No.: 601-023-00-4	1 – 2.5	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) Acute Tox. 4 (Inhalation:dust,mist), H332 (ATE=1.5 mg/l/4h) STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
Quartz (SiO2) substance with national workplace exposure limit(s) (AT, BE, DK, EE, ES, FI, FR, HR, IE, LT, NL, PL, PT, SE, SK, NO, MK, CH); substance with a Community workplace exposure limit	CAS-No.: 14808-60-7 EC-No.: 238-878-4	0.005 – 0.05	Not classified
Methyl methacrylate substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, AL, IS, NO, MK, RS, CH, TR); substance with a Community workplace exposure limit (Note D)	CAS-No.: 80-62-6 EC-No.: 201-297-1 EC Index-No.: 607-035-00-6	0.005 – 0.05	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335



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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Butyl methacrylate substance with national workplace exposure limit(s) (DK, EE, LT, LV, PL, RO, SE, IS, NO) (Note D)	CAS-No.: 97-88-1 EC-No.: 202-615-1 EC Index-No.: 607-033-00-5 REACH-no: 01-2119486394- 28	0.005 – 0.05	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335
2-methoxypropanol substance with national workplace exposure limit(s) (AT, DE, DK, ES, SI, SK, IS, NO, MK, CH)	CAS-No.: 1589-47-5 EC-No.: 216-455-5 EC Index-No.: 603-106-00-0	0.005 – 0.05	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 1B, H360D STOT SE 3, H335

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 D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.
- Note K: The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w 1,3- butadiene (Einecs No 203-450-8), 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-)P210-P403 shall apply.

Product subject to CLP Annex I, item 1.1.3.7. The disclosure rules of the components is modified in this case. Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures general : Call a poison center or a doctor if you feel unwell. First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. First-aid measures after skin contact Wash skin with plenty of water. : First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell. First-aid measures for first aider : First aid workers will be equipped with suitable personal protective equipment. 4.2. Most important symptoms and effects, both acute and delayed Symptoms/effects : May cause drowsiness or dizziness. Symptoms/effects after inhalation : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. Symptoms/effects after skin contact : None under normal conditions. Symptoms/effects after eye contact Eve irritation. Symptoms/effects after ingestion : None under normal conditions.

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

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide. : Do not use a heavy water stream.



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5.2. Special hazards arising from the substance or mixture			
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	 Extremely flammable aerosol. Pressurised container: May burst if heated. Toxic fumes may be released. 		
5.3. Advice for firefighters			
Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective	equipment and emergency procedures		
General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.		
6.1.1. For non-emergency personnel			
Protective equipment Emergency procedures	 Wear recommended personal protective equipment. Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. 		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
Emergency procedures	: Evacuate unnecessary personnel. Stop leak if safe to do so.		
6.2. Environmental precautions			
Avoid release to the environment.			
6.3 Methods and material for contain	ment and cleaning up		

0.5. Wethous and material for com	
For containment	: Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
Methods for cleaning up Other information	Mechanically recover the product.Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	

For further information refer to section 13.

SECTION 7: Handling and s	torage	
7.1. Precautions for safe handl	ing	
Additional hazards when processed Precautions for safe handling Hygiene measures	 Not expected to present a significant hazard under an Keep away from heat, hot surfaces, sparks, open flam smoking. Do not spray on an open flame or other ignifieven after use. Use only outdoors or in a well-ventilate dust/fume/gas/mist/vapours/spray. Avoid contact with protective equipment. Do not eat, drink or smoke when using this product. A product. 	nes and other ignition sources. No tion source. Do not pierce or burn, ed area. Avoid breathing skin and eyes. Wear personal
7.2. Conditions for safe storage	e, including any incompatibilities	
Technical measures Storage conditions Packaging materials	 Keep in a cool, well-ventilated place away from heat. Protect from sunlight. Do not expose to temperatures up. Store in a well-ventilated place. Keep container tig Store always product in container of same material as 	ghtly closed.
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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Xylene (mixture of isomers) (1330-20-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Xylene, mixed isomers, pure
IOEL TWA	221 mg/m ³
	50 ppm
IOEL STEL	442 mg/m ³
	100 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Ireland - Occupational Exposure Limits	·
Local name	Xylene, mixed isomers
OEL TWA	221 mg/m ³
	50 ppm
OEL STEL	442 mg/m ³
	100 ppm
Remark	Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2021
Ireland - Biological limit values	
Local name	Xylene
BMGV	1.5 g/g creatinine Parameter: methylhippuric acids - Medium: urine - Sampling time: End of Shift
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)
n-butyl acetate (123-86-4)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	n-Butyl acetate
IOEL TWA	241 mg/m³
	50 ppm
IOEL STEL	723 mg/m³
	150 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2019/1831
Ireland - Occupational Exposure Limits	
Local name	n-Butyl acetate



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n-butyl acetate (123-86-4)		
OEL TWA	241 mg/m ³	
	50 ppm	
OEL STEL	723 mg/m ³	
	150 ppm	
Remark	IOELV (Indicative Occupational Exposure Limit Values)	
Regulatory reference	Chemical Agents Code of Practice 2021	
Acetone (67-64-1)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Acetone	
IOEL TWA	1210 mg/m ³	
	500 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
Ireland - Occupational Exposure Limits		
Local name	Acetone	
OEL TWA	1210 mg/m ³	
	500 ppm	
Remark	IOELV (Indicative Occupational Exposure Limit Values)	
Regulatory reference	Chemical Agents Code of Practice 2021	
Ireland - Biological limit values		
Local name	Acetone	
BMGV	50 mg/l Parameter: acetone - Medium: urine - Sampling time: End of shift - Notations: Ns (Non-specific)	
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)	
1-methoxypropan-2-ol (107-98-2)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	1-Methoxypropanol-2	
IOEL TWA	375 mg/m ³	
	100 ppm	
IOEL STEL	568 mg/m ³	
	150 ppm	
Remark	Skin	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
Ireland - Occupational Exposure Limits		
Local name	Propylene glycol monomethyl ether [1-Methyoxypropan2-ol]	
OEL TWA	375 mg/m ³	
	100 ppm	
OEL STEL	568 mg/m³	
	150 ppm	
Remark	IOELV (Indicative Occupational Exposure Limit Values)	



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1-methoxypropan-2-ol (107-98-2)		
Regulatory reference	Chemical Agents Code of Practice 2021	
Ethylbenzene (100-41-4)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Ethylbenzene	
IOEL TWA	442 mg/m ³	
	100 ppm	
IOEL STEL	884 mg/m ³	
	200 ppm	
Remark	Skin	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
Ireland - Occupational Exposure Limits		
Local name	Ethylbenzene	
OEL TWA	442 mg/m ³	
	100 ppm	
OEL STEL	884 mg/m³	
	200 ppm	
Remark	Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values)	
Regulatory reference	Chemical Agents Code of Practice 2021	
Ireland - Biological limit values		
Local name Ethyl benzene		
BMGV	0.7 g/g creatinine Parameter: mandelic acid and phenylglyoxylic acid - Medium: urine - Sampling time: End of shift at end of workweek - Notations: Ns (Non-specific), Sq (Semi- quantitative) Parameter: ethylbenzene - Medium: end-exhaled air - Sampling time: Not critical - Notations: Sq (Semi-quantitative)	
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)	
Quartz (SiO2) (14808-60-7)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Silica crystaline (Quartz)	
IOEL TWA	0.05 mg/m ³ (respirable dust)	
Remark	(Year of adoption 2003)	
Regulatory reference	SCOEL Recommendations	
Ireland - Occupational Exposure Limits		
Local name	Quartz, respirable dust	
OEL TWA	0.1 mg/m³	
Remark	BOELV (Binding Occupational Exposure Limit Values)	
Regulatory reference	Chemical Agents Code of Practice 2021	



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Methyl methacrylate (80-62-6)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Methyl methacrylate	
IOEL TWA	50 ppm	
IOEL STEL	100 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2009/161/EU	
Ireland - Occupational Exposure Limits		
Local name	Methyl methacrylate	
OEL TWA	50 ppm	
OEL STEL	100 ppm	
Remark	IOELV (Indicative Occupational Exposure Limit Values), Sens. (In the workplace respiratory or dermal exposures to sensitising agents may occur. Sensitizers may evoke respiratory or dermal reactions, e.g. asthma, rhinitis and allergic contact dermatitis. The notation does not distinguish between respiratory or dermal sensitisation. Chemical agents that are sensitizers present special problems in the workplace. Should an employee become sensitised, subsequent exposure may cause intense responses, even at low exposure concentrations well below the OELV. Exposure should be eliminated or significantly reduced through control measures such as engineering and process controls and use of personal protective equipment (PPE))	
Regulatory reference	Chemical Agents Code of Practice 2021	

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls: Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Wear recommended personal protective equipment. Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Safety glasses

Eye protection			
Type Field of application Characteristics Standard			
Safety glasses			EN 166



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8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Skin and body protection	
Туре	Standard
protective clothing	EN ISO 6530

Hand protection:

Protective gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves, Reusable gloves					EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Aerosol.
Colour	: Silver-grey.
Odour	: organic solvent.
Odour threshold	: No data available
рН	: substance/mixture is non-soluble (in water)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: -40 – -2 °C (LPG)
Flash point	: <-40 °C
Auto-ignition temperature	: 365 °C (LPG)
Decomposition temperature	: No data available
Flammability (solid, gas)	: Extremely flammable aerosol.
Vapour pressure	: 590 – 1760 kPa (LPG)
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: > 20.5 mm²/s
Viscosity, dynamic	: No data available
Explosive properties	: Pressurised container: May burst if heated.
Oxidising properties	: No data available
Lower explosive limit (LEL)	: 1.4 vol % (LPG)
Upper explosive limit (UEL)	: 10.9 vol % (LPG)



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9.2. Other information		
VOC content	: 615 g/l	
Volatility	: Volatile	

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information	
11.1 Information on toxicological effects	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	: Not classified : Not classified : Not classified
Xylene (mixture of isomers) (1330-20-7)	
LD50 dermal rabbit	12126 mg/kg bodyweight Animal: rabbit, Animal sex: male, Remarks on results: other:
Acetone (67-64-1)	
LD50 oral rat	5800 mg/kg bodyweight Animal: rat, Animal sex: female
LC50 Inhalation - Rat	76 mg/l air Animal: rat, Animal sex: female, 95% CL: 65,2 - 88,4
1-methoxypropan-2-ol (107-98-2)	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal))
Methyl methacrylate (80-62-6)	
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
Skin corrosion/irritation Serious eye damage/irritation	 Not classified pH: substance/mixture is non-soluble (in water) Causes serious eye irritation.
, ,	pH: substance/mixture is non-soluble (in water) : Not classified
Respiratory or skin sensitisation Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity STOT-single exposure	: Not classified : May cause drowsiness or dizziness.



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Xylene (mixture of isomers) (1330-20-7)		
STOT-single exposure May cause respiratory irritation.		
n-butyl acetate (123-86-4)		
STOT-single exposure May cause drowsiness or dizziness.		
Acetone (67-64-1)		
STOT-single exposure	May cause drowsiness or dizziness.	
1-methoxypropan-2-ol (107-98-2)		
STOT-single exposure	May cause drowsiness or dizziness.	
2-methoxypropanol (1589-47-5)		
STOT-single exposure	May cause respiratory irritation.	
Methyl methacrylate (80-62-6)		
STOT-single exposure	May cause respiratory irritation.	
Butyl methacrylate (97-88-1)		
STOT-single exposure	May cause respiratory irritation.	
STOT-repeated exposure :	Not classified	
Xylene (mixture of isomers) (1330-20-7)		
LOAEL (oral, rat, 90 days)	150 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPP 82-1 (90- Day Oral Toxicity)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
1-methoxypropan-2-ol (107-98-2)		
LOAEL (oral, rat, 90 days)	2757 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)	
NOAEL (oral, rat, 90 days)	919 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)	
NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)	
Ethylbenzene (100-41-4)		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
Petroleum gases, liquefied (Contains < 0.1% 1,3-butadiene) (68476-85-7)		
LOAEC (inhalation, rat, gas, 90 days)	12000 ppm Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:	
Butyl methacrylate (97-88-1)		
LOAEC (inhalation, rat, gas, 90 days)	952 ppm Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28- Day Study)	
NOAEL (oral, rat, 90 days)	120 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity Study in Rodents)	
Aspiration hazard :	Not classified	
R-239 HEAVY DUTY ZINC GALVE		
Vaporizer	Aerosol	
Viscosity, kinematic	> 20.5 mm ² /s	



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Not able to form a pool Yes			
1-methoxypropan-2-ol (107-98-2)			
Viscosity, kinematic 1.848 mm ² /s			
Ethylbenzene (100-41-4)			
Viscosity, kinematic	0.6 mm²/s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm²/s)' Remarks on result: 'other:'		
Methyl methacrylate (80-62-6)			
Viscosity, kinematic	0.561 mm²/s		
Butyl methacrylate (97-88-1)			
Viscosity, kinematic	1.06 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)' Remarks on result: 'other:'		

SECTION 12: Ecological information

12.1. Toxicity					
Hazardous to the aquatic environment, short-term : (acute)	Toxic to aquatic life with long lasting effects. Not classified Toxic to aquatic life with long lasting effects.				
Xylene (mixture of isomers) (1330-20-7)					
EC50 - Crustacea [1]	> 3.4 mg/l Test organisms (species): Ceriodaphnia dubia				
LOEC (chronic)	3.16 mg/l Test organisms (species): Daphnia magna Duration: '21 d'				
NOEC chronic fish	> 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d'				
n-butyl acetate (123-86-4)					
EC50 - Other aquatic organisms [1]	32 mg/l Test organisms (species): Artemia salina				
EC50 72h - Algae [1]	674.7 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)				
Acetone (67-64-1)					
LOEC (chronic)	> 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'				
NOEC (chronic)	≥ 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'				
1-methoxypropan-2-ol (107-98-2)					
EC50 - Other aquatic organisms [1]	2954 mg/l Test organisms (species): other aquatic crustacea:				
Petroleum gases, liquefied (Contains < 0.1% 1	,3-butadiene) (68476-85-7)				
LC50 - Fish [1]	0.362 mg/l				
EC50 - Crustacea [1]	0.018 mg/l				
ErC50 algae	7.6 mg/l Source: ECOTOX				
Methyl methacrylate (80-62-6)					
LC50 - Fish [1]	> 79 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)				



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Methyl methacrylate (80-62-6)				
EC50 - Crustacea [1]	69 mg/l Test organisms (species): Daphnia magna			
EC50 72h - Algae [1]	 > 110 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) 			
LOEC (chronic)	68 mg/l Test organisms (species): Daphnia magna Duration: '21 d'			
NOEC (chronic)	37 mg/l Test organisms (species): Daphnia magna Duration: '21 d'			
NOEC chronic fish	9.4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d'			
Butyl methacrylate (97-88-1)				
LC50 - Fish [1]	11 mg/l Test organisms (species): Pimephales promelas			
LC50 - Fish [2]	5.57 mg/l Test organisms (species): Oryzias latipes			
EC50 - Crustacea [1]	32 mg/l Test organisms (species): Daphnia magna			
EC50 72h - Algae [1]	31.2 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)			

12.2. Persistence and degradability

R-239 HEAVY DUTY ZINC GALVE					
Persistence and degradability	Not rapidly degradable				
Xylene (mixture of isomers) (1330-20-7)					
Persistence and degradability	Not rapidly degradable				
Zinc powder - zinc dust (stabilised) (7440-66-6)					
Persistence and degradability	Not rapidly degradable				
n-butyl acetate (123-86-4)					
Persistence and degradability	Rapidly degradable				
Biodegradation	83 %				
Acetone (67-64-1)					
Persistence and degradability	Not rapidly degradable				
1-methoxypropan-2-ol (107-98-2)					
Persistence and degradability	Rapidly degradable				
Biodegradation	96 %				
2-methoxypropanol (1589-47-5)					
Persistence and degradability	Biodegradability in water: no data available.				
Ethylbenzene (100-41-4)					
Persistence and degradability	Not rapidly degradable				
Quartz (SiO2) (14808-60-7)					
Persistence and degradability	Not rapidly degradable				
Petroleum gases, liquefied (Contains < 0.1% 1	,3-butadiene) (68476-85-7)				
Persistence and degradability	Rapidly degradable				



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Methyl methacrylate (80-62-6)			
Persistence and degradability	Not rapidly degradable		
Butyl methacrylate (97-88-1)			
Persistence and degradability Not rapidly degradable			
12.3. Bioaccumulative potential			
Petroleum gases, liquefied (Contains < 0.1% 1,3-butadiene) (68476-85-7)			
Partition coefficient n-octanol/water (Log Pow) ≤ 2.8 Source: IUCLID			
12.4. Mobility in soil			

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation Waste treatment methods Sewage disposal recommendations Product/Packaging disposal recommendations Additional information HP Code

- : Disposal must be done according to official regulations.
- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : Disposal must be done according to official regulations.
- : Disposal must be done according to official regulations.
- : Do not re-use empty containers.
- : HP3 "Flammable:"
- flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;
- flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;
- flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;
- flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;
- water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;
- other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.
- HP5 "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.
- HP4 "Irritant skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.
- HP14 "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID



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ADR	IMDG		ΙΑΤΑ	ADN	RID	
14.1. UN number						
UN 1950	UN 1950		UN 1950	UN 1950	UN 1950	
			011 1950	010 1950	011 1950	
14.2. UN proper shippin	g name				1	
AEROSOLS	AEROSOLS		Aerosols, flammable	AEROSOLS	AEROSOLS	
Transport document descr	iption					
UN 1950 AEROSOLS, 2.1,	UN 1950 AEROSOLS,	2.1,	UN 1950 Aerosols,	UN 1950 AEROSOLS, 2.1,	UN 1950 AEROSOLS, 2.1	
(D), ENVIRONMENTALLY	MARINE		flammable, 2.1,	ENVIRONMENTALLY	ENVIRONMENTALLY	
HAZARDOUS	POLLUTANT/ENVIRON NTALLY HAZARDOL		ENVIRONMENTALLY HAZARDOUS	HAZARDOUS	HAZARDOUS	
14.3. Transport hazard (
2.1	2.1		2.1	2.1	2.1	
	W X			W N		
14.4. Packing group						
Not applicable	Not applicable		Not applicable	Not applicable	Not applicable	
14.5. Environmental haz	zards					
Dangerous for the	Dangerous for the		Dangerous for the	Dangerous for the	Dangerous for the	
environment: Yes environment: Yes			environment: Yes	environment: Yes	environment: Yes	
Marine pollutant: Ye						
No supplementary information	on available					
14.6. Special precaution	s for user					
Overland transport						
Classification code (ADR)	:	: 5F				
Special provisions (ADR)	:	: 190,	327, 344, 625			
imited quantities (ADR)		: 11				
Excepted quantities (ADR)	:	: E0				
Packing instructions (ADR)	:		7, LP200			
Special packing provisions (A	DR)	: PP8	7, RR6, L2			
Aixed packing provisions (AD	DR)	: MP9				
Fransport category (ADR)	:	: 2				
Special provisions for carriag	e - Packages (ADR)	: V14				
Special provisions for carriag	e - Loading, unloading	: CV9, CV12				
and handling (ADR)						
Special provisions for carriag	e - Operation (ADR)	: S2				
Funnel restriction code (ADR)	: D				
Fransport by sea						
			: 63, 190, 277, 327, 344, 381, 959			
			: SP277			
Excepted quantities (IMDG)	:	: E0				
Packing instructions (IMDG)		: P207, LP200				
Special packing provisions (II		: PP87, L2				
			: F-D			
EmS-No. (Spillage)						
Stowage category (IMDG)			9			
Stowage and bandling (IMDC)		: None	SW/22			



Stowage and handling (IMDG)

Segregation (IMDG)

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: SW1, SW22

: SG69

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Air transport

PCA Excepted quantities (IATA)	:	E0
PCA Limited quantities (IATA)	:	Y203
PCA limited quantity max net quantity (IATA)	:	30kgG
PCA packing instructions (IATA)	:	203
PCA max net quantity (IATA)	:	75kg
CAO packing instructions (IATA)	:	203
CAO max net quantity (IATA)	:	150kg
Special provisions (IATA)	:	A145, A167, A802
ERG code (IATA)	:	10L
Inland waterway transport		
Classification code (ADN)	:	5F
Special provisions (ADN)	:	190, 327, 344, 625
Limited quantities (ADN)	:	1 L
Excepted quantities (ADN)	:	E0
Equipment required (ADN)	:	PP, EX, A
Ventilation (ADN)	:	VE01, VE04
Number of blue cones/lights (ADN)	:	1
Rail transport		
Classification code (RID)	:	5F
Special provisions (RID)		190, 327, 344, 625
Limited quantities (RID)	:	1L
Excepted quantities (RID)		E0
Packing instructions (RID)		P207, LP200
Special packing provisions (RID)	:	PP87, RR6, L2
Mixed packing provisions (RID)	:	MP9
Transport category (RID)	:	2
Special provisions for carriage – Packages (RID)	:	W14
Special provisions for carriage - Loading, unloading		
and handling (RID)		,
Colis express (express parcels) (RID)	:	CE2
Hazard identification number (RID)	:	23

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)





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Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

VOC Directive (2004/42)

VOC content

: 615 g/l

Explosives Precursors Regulation (2019/1148)

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors) ANNEX II REPORTABLE EXPLOSIVES PRECURSORS

List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported within 24 hours.

Name	CAS-No.	Nomenclature	Combined Nomenclature code for mixture without constituents which would determine classification under another CN code
Acetone	67-64-1	2914 11 00	ex 3824 99 92

Drug Precursors Regulation (273/2004)

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

Name	CN designation	CAS-No.	CN code	Category, Subcategory	Threshold	Annex
Acetone		67-64-1	2914 11 00	Category 3		Annex I

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acr	Abbreviations and acronyms:			
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways			
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road			
ATE	Acute Toxicity Estimate			
BCF	Bioconcentration factor			
BLV	Biological limit value			
BOD	Biochemical oxygen demand (BOD)			
COD	Chemical oxygen demand (COD)			
DMEL	Derived Minimal Effect level			
DNEL	Derived-No Effect Level			
EC-No.	European Community number			
EC50	Median effective concentration			
EN	European Standard			
IARC	International Agency for Research on Cancer			
ΙΑΤΑ	International Air Transport Association			
IMDG	International Maritime Dangerous Goods			
LC50	Median lethal concentration			
LD50	Median lethal dose			



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Abbreviations and	l acronyms:
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
РВТ	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

Full text of H- and EUH	Full text of H- and EUH-statements:				
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4				
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4				
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4				
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1				
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1				
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3				
Asp. Tox. 1	Aspiration hazard, Category 1				
EUH066	Repeated exposure may cause skin dryness or cracking.				
Eye Dam. 1	Serious eye damage/eye irritation, Category 1				
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2				
Flam. Gas 1A	Flammable gases, Category 1A				
Flam. Liq. 2	Flammable liquids, Category 2				
Flam. Liq. 3	Flammable liquids, Category 3				
H220	Extremely flammable gas.				
H222	Extremely flammable aerosol.				
H225	Highly flammable liquid and vapour.				
H226	Flammable liquid and vapour.				
H229	Pressurised container: May burst if heated.				



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Full text of H- an	Id EUH-statements:	
H304	May be fatal if swallowed and enters airways.	
H312	Harmful in contact with skin.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
H360D	May damage the unborn child.	
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.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
Press. Gas	Gases under pressure	
Repr. 1B	Reproductive toxicity, Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	

 Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

 Aerosol 1
 H222;H229
 On basis of test data

 Eye Irrit. 2
 H319
 Calculation method

 STOT SE 3
 H336
 Calculation method

Safety Data Sheet (SDS), EU

H411

Aquatic Chronic 2

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Calculation method

