

Printing date 02/19/2018 Version number 30

Reviewed on 02/19/2018

1 Identification

- · Product identifier
 - · Product number LMT004
 - · Trade name: pasta metallizzata fine
 - · Application of the substance / the mixture For professional use
- · Details of the supplier of the safety data sheet
 - · Manufacturer/Supplier:

IVM Chemicals srl

Viale della Stazione 3 - 27020 Parona (PV) Italy tel +39 038425441

· Information department:

Environmental Health and safety office

hseoffice@ivmchemicals.com

· Emergency telephone number:

ChemTel Expert Assistance Hotline/SDS Fax Access by dialing 1-800-255-3924 or for International +1-813-248-0585.

2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms







GHS02 GHS07 GHS08

- · Signal word Danger
- · Hazard-determining components of labeling: toluene

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pasta metallizzata fine Trade name:

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ethylbenzene

xylene

ethyl acetate

methyl methacrylate

2-hydroxyethyl methacrylate

Fatty acids, tallow, oleylamine compounds

· Hazard statements

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eve irritation.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways. H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P301+P310 If swallowed: Immediately call a poison center/doctor.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 2

Fire = 3

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 2

Fire = 3

Reactivity = 0

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture: consisting of the following components.

· Dangerous components:

141-78-6 ethyl acetate

Flam. Liq. 2, H225
Eye Irrit. 2A, H319; STOT SE 3, H336

20-24.9%

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108-88-3		15-19.9%
110-19-0	isobutyl acetate Flam. Liq. 2, H225 STOT SE 3, H336	5-9.99%
1330-20-7	xylene Flam. Liq. 3, H226 STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	5-9.99%
123-86-4	n-butyl acetate Flam. Liq. 3, H226 STOT SE 3, H336	5-9.99%
108-65-6	2-methoxy-1-methylethyl acetate § Flam. Liq. 3, H226	2.5-4.99%
64742-95-6	2-95-6 Solvent naphtha (petroleum), light arom. Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H335-H336	
64742-48-9	Naphtha (petroleum), hydrotreated heavy Asp. Tox. 1, H304 Flam. Liq. 4, H227	1-2.49%
67-63-0	propan-2-ol ♠ Flam. Liq. 2, H225 ♠ Eye Irrit. 2A, H319; STOT SE 3, H336	1-2.49%
100-41-4	0-41-4 ethylbenzene Flam. Liq. 2, H225 Carc. 2, H351; STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H332	
80-62-6	80-62-6 methyl methacrylate 0. Flam. Liq. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	
868-77-9	2-hydroxyethyl methacrylate Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	≥0.1-<0.5%
64-17-5	ethanol Flam. Liq. 2, H225 Eye Irrit. 2A, H319	≥0.1-<0.5%

4 First-aid measures

· Description of first aid measures

· General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

personal protective equipment for first aid responders is recommended. (please see section 8)

· After inhalation:

Supply fresh air and to be sure call for a doctor.

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In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Take off immediately all contaminated clothing, include underwear and shoes (if necessary). Rinse thoroughly with plenty of water for at least 20 minutes and take medical advise. If medical advise is needed have products container or label at hand.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Do not induce vomiting; immediately call for medical help.
- · Information for doctor:
 - · Most important symptoms and effects, both acute and delayed
 For symptoms and effects caused by substances, refer to Section 11.
 - · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
 - · Suitable extinguishing agents: Alcohol resistant foam, CO, powder, water spray/mist.
 - $\cdot \textit{For safety reasons unsuitable extinguishing agents:} \\$

Do not use a jet water stream as it may scatter and spread fire.

· Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

· Advice for firefighters

Cool by spraying with water the containers to prevent product decomposition and the development of substances potentially hazardous for health and also, in the case of closed containers exposed to flames to prevent explosions.

· Protective equipment:

Hardhat with visor, fireproof clothing, suitable gloves and if necessary respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources

· Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to Section 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

· PAC-1:

141-78-6 ethyl acetate

1,200 ppm

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108-88-3		67 ppm
	isobutyl acetate	450 ppm
1330-20-7	•	130 ppm
	n-butyl acetate	5 ppm
	2-methoxy-1-methylethyl acetate	50 ppm
64742-48-9	Naphtha (petroleum), hydrotreated heavy	350 mg/m ³
67-63-0	propan-2-ol	400 ppm
100-41-4	<i>ethylbenzene</i>	33 ppm
80-62-6	methyl methacrylate	17 ppm
868-77-9	2-hydroxyethyl methacrylate	1.9 mg/m³
64-17-5	ethanol	1,800 ppm
· PAC-2:		
141-78-6	ethyl acetate	1,700 ppm
108-88-3	toluene	560 ppm
110-19-0	isobutyl acetate	1300* ppm
1330-20-7	xylene	920* ppm
123-86-4	n-butyl acetate	200 ppm
108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
64742-48-9	Naphtha (petroleum), hydrotreated heavy	1,800 mg/m ³
67-63-0	propan-2-ol	2000* ppm
100-41-4	<i>ethylbenzene</i>	1100* ppm
80-62-6	methyl methacrylate	120 ppm
868-77-9	2-hydroxyethyl methacrylate	21 mg/m³
64-17-5	ethanol	3300* ppm
· PAC-3:		
141-78-6	ethyl acetate	10000** ppm
108-88-3	toluene	3700* ppm
110-19-0	isobutyl acetate	7500** ppm
1330-20-7	xylene	2500* ppm
123-86-4	n-butyl acetate	3000* ppm
108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
64742-48-9	Naphtha (petroleum), hydrotreated heavy	40,000 mg/m ³
	propan-2-ol	12000** ppm
	ethylbenzene ethylbenzene	1800* ppm
80-62-6	methyl methacrylate	570 ppm
868-77-9	2-hydroxyethyl methacrylate	1,000 mg/m³
64-17-5		15000* ppm

7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Protect against electrostatic charges.

Use explosion-proof apparatus / fittings and spark-proof tools.

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· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· Conditions for safe storage, including any incompatibilities

- · Storage:
 - · Requirements to be met by storerooms and receptacles:

Store in a cool, well-ventilated area, away from heat and sources of ignition

Provide solvent resistant, sealed floor.

Observe the label precautions, the expiration date for the use, if not indicated, is from delivery date of goods.

In cases where there is no reported expiration date, it means that the product must be used within 8 months.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· Specific end use(s) Those typical of the product and the instructions in the data sheet if required.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
 - · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

	•		
141-78	3-6 ethyl acetate		
PEL Long-term value: 1400 mg/m³, 400 ppm			
REL	Long-term value: 1400 mg/m³, 400 ppm		
TLV	Long-term value: 1440 mg/m³, 400 ppm		
110-19	0-0 isobutyl acetate		
PEL	Long-term value: 700 mg/m³, 150 ppm		
REL	Long-term value: 700 mg/m³, 150 ppm		
TLV	Short-term value: 172 mg/m³, 150 ppm		
	Long-term value: 238 mg/m³, 50 ppm		
123-86	3-4 n-butyl acetate		
PEL	Long-term value: 710 mg/m³, 150 ppm		
REL	Long-term value: 950 mg/m³, 200 ppm		
TLV	Short-term value: 712 mg/m³, 150 ppm		
	Long-term value: 238 mg/m³, 50 ppm		
108-65	-6 2-methoxy-1-methylethyl acetate		
WEEL	Long-term value: 50 ppm		
67-63-	7-63-0 propan-2-ol		
PEL	Long-term value: 980 mg/m³, 400 ppm		
REL	Short-term value: 1225 mg/m³, 500 ppm		
	Long-term value: 980 mg/m³, 400 ppm		
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TLV	Short-term value: 984 mg/m³, 400 ppm	(Conta. or pa
	Long-term value: 492 mg/m³, 200 ppm	
	BEI	
100-4	41-4 ethylbenzene	
PEL	Long-term value: 435 mg/m³, 100 ppm	
REL	Short-term value: 545 mg/m³, 125 ppm	
	Long-term value: 435 mg/m³, 100 ppm	
TLV	Long-term value: 87 mg/m³, 20 ppm BEI	
80-62	2-6 methyl methacrylate	
PEL	Long-term value: 410 mg/m³, 100 ppm	
REL	Long-term value: 410 mg/m³, 100 ppm	
TLV	Short-term value: 410 mg/m³, 100 ppm	
	Long-term value: 205 mg/m³, 50 ppm	
	DSEN	
	· Ingredients with biological limit values:	
108-8	88-3 toluene	
BEI	0.02 mg/L	
	Medium: blood	
	Time: prior to last shift of workweek	
,	Parameter: Toluene	
	0.03 mg/L	
	Medium: urine	
	Time: end of shift	
	Parameter: Toluene	
	0.3 mg/g creatinine	
	Medium: urine	
	Time: end of shift	
1	Parameter: o-Cresol with hydrolysis (background)	
1330	-20-7 xylene	
	1.5 g/g creatinine	
	Medium: urine	
	Time: end of shift	
	Parameter: Methylhippuric acids	
	3-0 propan-2-ol	
	40 mg/L Medium: urine	
	медилт. unne Time: end of shift at end of workweek	
	Parameter: Acetone (background, nonspecific)	
I.		



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100-41-4 ethylbenzene

BEI 0.7 g/g creatinine

Medium: urine

Time: end of shift at end of workweek

Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)

-

Medium: end-exhaled air

Time: not critical

Parameter: Ethyl benzene (semi-quantitative)

· Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment:
 - · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Pregnant women should strictly avoid inhalation or skin contact.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

Due to missing tests no recommendation to the glove material can be given for the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The glove material has to be impermeable and resistant to the product.

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

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Information on basic physical and	chemical properties	
· General Information	chichina proportio	
· Appearance:		
Form:	Fluid	
· Color:	According to product specification	
· Odor:	Characteristic	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
· Melting point/Melting range:	Undetermined.	
· Boiling point/Boiling range:	77 °C (170.6 °F)	
· Flash point:	-4 °C (24.8 °F)	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	240 °C (464 °F)	
· Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive. However, format	tion of explosi
	air/vapor mixtures are possible.	-
· Explosion limits:		
· Lower:	0.6 Vol %	
· Upper:	12 Vol %	
· Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)	
· Density at 20 °C (68 °F):	0.998 g/cm³ (8.328 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
· Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wate	er): Not determined.	
· Viscosity:		
· Dynamic:	Not determined.	
• Kinematic at 20 °C (68 °F):	40 s (ISO 4 mm)	
· Oxidising properties:	N.A.	
· Solvent content:	0.004	
· Water:	0.0 %	
· VOC content:	75.31 %	
	751.6 g/l / 6.27 lb/gl	
· Solids content:	24.7 %	
Other information (HAPS)		/= /c -
108-88-3 toluene		15-19.9
1330-20-7 xylene		5-9.99%
100-41-4 ethylbenzene		1-2.49%
80-62-6 methyl methacrylate		0.5-1%



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· Other information

No further relevant information available.

10 Stability and reactivity

- · Reactivity typical of the product as indicated in the data sheet
 - · Chemical stability The product is stable in normal conditions of storage and use recommended
 - · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

Possibility of hazardous reactions

Reacts with strong acids and oxidizing agents.

Vapours may form explosive mixtures with air

- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products:

in case of possible formation of combustion:

Carbon monoxide and carbon dioxide

11 Toxicological information

- · Information on toxicological effects
 - · Acute toxicity:

		es that are relevant for classification:
141-78-6 ethyl acetate		
Oral	LD50	4,934 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Dermal	LD50	20,001 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	1,600 mg/l (rat/szczur/mouse/souris/Maus/ratón)
	LC0	22.6 ppm (mouse)
108-88-3 1	toluene	
Oral	LD50	5,000 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	12,124 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	25.7 mg/l (rat/szczur/mouse/souris/Maus/ratón)
110-19-0 i	sobutyl a	cetate
Oral	LD50	13,400 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	17,401 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	31 mg/l (rat/szczur/mouse/souris/Maus/ratón)
1330-20-7	xylene	
Oral	LD50.	3,523 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50.	12,126 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4h.	27.571 mg/l (rat/szczur/mouse/souris/Maus/ratón)
123-86-4 i	n-butyl ac	etate
Oral	LD50	10,760 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	14,000 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	21.1 mg/l (rat/szczur/mouse/souris/Maus/ratón)
108-65-6 2	2-methoxy	y-1-methylethyl acetate
Oral	LD50	8,532 mg/kg (rat/szczur/mouse/souris/Maus/ratón)



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- · Primary irritant effect:
 - on the skin: Irritant to skin and mucous membranes.
 - on the eve: Irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

Irritant

Causes skin irritation.

Causes serious eye irritation.

Suspected of damaging the unborn child.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

May be fatal if swallowed and enters airways.

Contains methyl methacrylate, 2-hydroxyethyl methacrylate, Fatty acids, tallow, oleylamine compounds. May produce an allergic reaction.

· Carcinogenic categories

Ethylbenzene

From IARC MONOGRAPHS VOLUME 77/2000

Human carcinogenicity data

Two studies of workers potentially exposed to ethylbenzene in a production plant and a styrene polymerization plant were available. In the first study, no excess of cancer incidence was found but the description of methods was insufficient to allow proper evaluation of this finding. In the second study, no cancer mortality excess was observed during the follow-up

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of 15 years.

Evaluation

There is inadequate evidence in humans for the carcinogenicity of ethylbenzene. There is sufficient evidence in experimental animals for the carcinogenicity of ethylbenzene.

• .	IARC (International Agency for Research on Cancer - Cl. 1 and 2)	
100-41-4	ethylbenzene	2B
64-17-5	ethanol	1
•.	NTP (National Toxicology Program)	
None of ti	he ingredients is listed.	
•	OSHA-Ca (Occupational Safety & Health Administration)	
None of ti	he ingredients is listed.	

12 Ecological information

· Aquatic toxicity:		
141-78-6 et	hyl acetate	
EC50	165 mg/l (daphnia) (48 h)	
LC50 (96h)	230 mg/l (Fish)	
108-88-3 to	luene	
EC50	134 mg/l (algae) (96 h)	
	3.78 mg/l (daphnia) (48 h)	
LC50 (96h)	5.5 mg/l (Fish)	
110-19-0 is	obutyl acetate	
EC50	370 mg/l (algae) (72 h)	
	25 mg/l (daphnia)	
LC50 (96h)	17 mg/l (Fish)	
123-86-4 n-	butyl acetate	
EC50	648 mg/l (algae) (72 h)	
	44 mg/l (daphnia) (48 h)	
LC50 (96h)	18 mg/l (Fish)	
108-65-6 2-	methoxy-1-methylethyl acetate	
EC50	1,001 mg/l (algae) (72 h)	
	501 mg/l (daphnia) (48 h)	
LC50 (96h)	134 mg/l (Fish)	
64742-95-6	Solvent naphtha (petroleum), light arom.	
EC50	1 mg/l (algae) (72 h)	
	1 mg/l (daphnia) (48 h)	
, ,	1 mg/l (Fish)	
67-63-0 pro	ppan-2-ol	
EC50	1,001 mg/l (algae) (72 h)	
	10,000 mg/l (daphnia) (24 h)	
LC50 (96h)	9,640 mg/l (Fish)	



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100-41-4 et	hylbenzene
EC50	75 mg/l (daphnia) (48 h)
80-62-6 me	thyl methacrylate
EC50	170 mg/l (algae) (72 h)
LC50 (96h)	191 mg/l (Fish)
868-77-9 2-	hydroxyethyl methacrylate
LC50 (96h)	240 mg/l (Fish)
64-17-5 eth	anol
EC50	5,012 mg/l (daphnia) (48 h)
LC50 (96h)	15.3 mg/l (Fish)

Persistence and degradability

Data refers to the substance Toluene CAS No. 108-88-3

Readily biodegradable (according to OECD criteria and/or EU RAR)

	reading states (decertaining to 0200 entertaining at 10 mm)		
· Substances Easily biodegradable			
141-78-6	ethyl acetate		
108-88-3	toluene		
110-19-0	isobutyl acetate	•	
1330-20-7	xylene		
123-86-4	n-butyl acetate	•	
108-65-6	2-methoxy-1-methylethyl acetate		
67-63-0	propan-2-ol		
100-41-4	ethylbenzene	•	
64-17-5	ethanol		

Behavior in environmental systems:

- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.

· Ecotoxical effects:

· Remark: Harmful to fish

· Additional ecological information:

· General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

· Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Hand over to hazardous waste disposers.

Dispose of contents and container in accordance with local state and federal regulations.

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· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

Transport information	
UN-Number	
· DOT	NA 1263
· IMDG, IATA	UN1263
UN proper shipping name	
$\cdot DOT$	Paint
· IMDG, IATA	PAINT
Transport hazard class(es)	
\cdot DOT	
FLANMABLE LIQUID	
3	
· Class	3 Flammable liquids
· Cuss · Label	3 Transmable liquids
· Class	3 Flammable liquids
· Label	3
· IMDG, IATA	
3	
· Class	3 Flammable liquids
· Label	3
Packing group · DOT, IMDG, IATA	II
Environmental hazards:	
· Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
· Danger code (Kemler):	33
· EMS Number:	F-E, <u>S-E</u>
· Stowage Category	В
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	t II of Not applicable.
Transport/Additional information:	140: αρριισασίο.
-	
· IMDG	5L
· Limited quantities (LQ) · Excepted quantities (EQ)	Code: E2
- Excepted quantities (EQ)	Maximum net quantity per inner packaging:
	ml
	Maximum net quantity per outer packagir 500 ml



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· UN "Model Regulation":

UN 1263 PAINT, SPECIAL PROVISION 640D, 3, II

15 Regulatory information

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

Requirements of Federal Register

· SARA

· Secti	ion 313 (Specific toxic chemical listings) :	
108-88-3	toluene	15-19.9%
1330-20-7	xylene	5-9.99%
7429-90-5	aluminium powder (stabilised)	5-9.99%
67-63-0	propan-2-ol	1-2.49%
100-41-4	ethylbenzene	1-2.49%
80-62-6	methyl methacrylate	0.5-1%
78-93-3	butanone	<0.01%

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:	
100-41-4 ethylbenzene	* 1-2.49%

· Chemicals known to cause reproductive toxicity for females:

70657-70-4 2-methoxypropyl acetate <0.01%

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:		
108-88-3	toluene	15-19.9%
64-17-5	ethanol	≥0.1-<0.5%

· Carcinogenic categories

	genic cuiegories				
· EPA (Environmental Protection Agency)					
108-88-3	toluene	<i>II</i>	15-19.9	9%	
1330-20-7	xylene	1	5-9.99	1%	
100-41-4	ethylbenzene	D	1-2.49	1%	
80-62-6	methyl methacrylate	E, NL	0.5-19	%	
78-93-3	butanone	1	<0.01	%	
$\cdot TLV$	· TLV (Threshold Limit Value established by ACGIH)				
108-88-3	toluene			A4	
1330-20-7	xylene			A4	
7429-90-5	aluminium powder (stabilised)			A4	
67-63-0	propan-2-ol			A4	
100-41-4	ethylbenzene		,	А3	
		(0			

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		(Contd. of page 15)	
80-62-6	methyl methacrylate	A4	
64-17-5	ethanol	A3	
· NIO	· NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of th	e ingredients is listed.		

· National regulations:

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: IVM Chemicals Srl
- · Contact: See emergency phone
 - Date of preparation / last revision 02/19/2018 / 29
 - · Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, ÉU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Flam. Liq. 4: Flammable liquids – Category 4

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

Skin Sens. 1: Skin sensitisation - Category 1

Carc. 2: Carcinogenicity - Category 2

Carc. 2: Carcinogenicity - Category 2

Repr. 2: Reproductive toxicity - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· Sources

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL and following amendments

Agency ECHA web site INRS Fiche Toxicologique

IARC International agency for research on cancer