

Printing date 02/19/2018

Version number 42

Reviewed on 02/19/2018

1 Identification

- · Product identifier
 - · Product number LMT002
 - Trade name: pasta metallizzata grossa • 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

am. Liq. 2 H225 Highly flammable liquid and vap	or.

GHS08 Health hazard

V		
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

Fla

\mathbf{V}		
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



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

(Contd. on page 2)



Safety Data Sheet 29 CFR Parts 1910 1915 1926

Version number 42

Reviewed on 02/19/2018

Product number LMT002 Trade name: pasta metallizzata grossa

(Contd. of page 1) ethylbenzene xvlene ethvl 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 = 2Fire = 3Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH 2 Health = 23 Fire = 3FIRF Reactivity = 0REACTIVITY 0

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture: consisting of the following components.

141-78-6 ethyl acetate	20-24.9%
 Flam. Liq. 2, H225 Eye Irrit. 2A, H319; STOT SE 3, H336 	
	(Contd. on page 3)



Safety Data Sheet 29 CFR Parts 1910 1915 1926

Version number 42

Reviewed on 02/19/2018

Product number	r LMT002
Trade name:	pasta metallizzata grossa

		(Contd. of page 2
108-88-3	toluene Flam. Liq. 2, H225 Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304 Skin Irrit. 2, H315; STOT SE 3, H336 Aquatic Chronic 3, H412	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 Image: Symplectic s	2.5-4.99%
64742-48-9	Naphtha (petroleum), hydrotreated heavy Asp. Tox. 1, H304 Flam. Liq. 4, H227	2.5-4.99%
67-63-0	propan-2-ol Flam. Liq. 2, H225 Eye Irrit. 2A, H319; STOT SE 3, H336	1-2.49%
100-41-4	ethylbenzene Flam. Liq. 2, H225 Carc. 2, H351; STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H332	1-2.49%
64742-95-6	Solvent naphtha (petroleum), light arom. Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Acute Tox. 4, H332; STOT SE 3, H335-H336	1-2.49%
80-62-6	methyl methacrylate Flam. Liq. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	0.5-1%
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		≥0.1-<0.5%

4 First-aid measures

· Description of first aid measures

· General information:

Symptom's 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.

(Contd. on page 4)

US

(Contd. of page 3)



Printing date 02/19/2018

Version number 42

Take off immediately all contaminated clothing, include underwear and shoes (if necessary).

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

Immediately wash with water and soap and rinse thoroughly.

Reviewed on 02/19/2018

Product number LMT002

· After skin contact:

pasta metallizzata grossa Trade name:

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 eve 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 sprav/mist. · 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 (Contd. on page 5)



Safety Data Sheet 29 CFR Parts 1910 1915 1926

Version number 42

Reviewed on 02/19/2018

Product number LMT002 Trade name: pasta metallizzata grossa

108-88-3	toluene	(Contd. of pag 67 ppm
110-19-0	isobutyl acetate	450 ppm
1330-20-7		130 ppm
123-86-4	n-butyl acetate	5 ppm
108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
64742-48-9	Naphtha (petroleum), hydrotreated heavy	350 mg/r
67-63-0	propan-2-ol	400 ppm
100-41-4	ethylbenzene	33 ppm
80-62-6	methyl methacrylate	17 ppm
868-77-9	2-hydroxyethyl methacrylate	1.9 mg/m
64-17-5	ethanol	1,800 pp
· PAC-2:		I
141-78-6	ethyl acetate	1,700 ppm
108-88-3	-	560 ppm
110-19-0	isobutyl acetate	1300* ppm
1330-20-7	-	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/r
67-63-0	propan-2-ol	2000* ppm
100-41-4	ethylbenzene	1100* ppm
80-62-6	methyl methacrylate	120 ppm
868-77-9	2-hydroxyethyl methacrylate	21 mg/m ³
64-17-5	ethanol	3300* ppm
· PAC-3:		
141-78-6	ethyl acetate	10000** ppn
108-88-3		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/n
67-63-0	propan-2-ol	12000** ppn
100-41-4	ethylbenzene	1800* ppm
80-62-6	methyl methacrylate	570 ppm
868-77-9	2-hydroxyethyl methacrylate	1,000 mg/m ³
64-17-5	ethanol	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.

(Contd. on page 6)

US



Safety Data Sheet 29 CFR Parts 1910 1915 1926

Version number 42

Reviewed on 02/19/2018

Product number LMT002 Trade name: pasta metallizzata grossa

(Contd. of page 5)

• 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.

141-78-6 ethyl acetate PEL Long-term value: 1400 mg/m³, 400 ppm Long-term value: 1400 mg/m³, 400 ppm REL TLV Long-term value: 1440 mg/m³, 400 ppm 110-19-0 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 123-86-4 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 67-63-0 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 (Contd. on page 7)



Printing date 02/19/2018

Version number 42

Reviewed on 02/19/2018

	me: pasta metallizzata grossa	
	(Contr	d. of pa
TLV	Short-term value: 984 mg/m ³ , 400 ppm Long-term value: 492 mg/m ³ , 200 ppm BEI	
100-4	11-4 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	38-3 toluene	
T F C N T	Medium: blood Time: prior to last shift of workweek Parameter: Toluene 0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene	
Л 7 F	0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)	
	-20-7 xylene	
۸ 7	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids	
67-63	3-0 propan-2-ol	
	40 mg/L Medium: urine Time: end of shift at end of workweek	



Safety Data Sheet 29 CFR Parts 1910 1915 1926

Version number 42

Reviewed on 02/19/2018

Product number LMT002 Trade name: pasta metallizzata grossa

(Contd. of page 7) 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

(Contd. on page 9)

US

(Contd. of page 8)



Safety Data Sheet 29 CFR Parts 1910 1915 1926

Version number 42

Reviewed on 02/19/2018

Product number LMT002

Printing date 02/19/2018

Trade name: pasta metallizzata grossa

9 Physical	and chemical prope	rties		
· Information on basic physical and chemical properties				
· General Information				
· Appea	•			
· Fo	orm:	Fluid		
· Co		According to product specification		
· Odor:		Characteristic		
· Odor i	threshold:	Not determined.		
· pH-value:		Not determined.		
	n condition			
	ng point/Melting range:	Undetermined.		
· Boilin	g point/Boiling range:	77 °C (170.6 °F)		
· Flash poi	int:	-4 °C (24.8 °F)		
· Flammab	vility (solid, gaseous):	Not applicable.		
· Ignition t	emperature:	240 °C (464 °F)		
· Decon	nposition temperature:	Not determined.		
• Auto igni	ting:	Product is not selfigniting.		
• Danger o	f explosion:	Product is not explosive. However, form air/vapor mixtures are possible.	ation of explosive	
· Explosion	n limits:			
Lower	· ·	0.6 Vol %		
· Upper	•	12 Vol %		
· Vapor pro	essure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)		
	t 20 °C (68 °F):	1.017 g/cm³ (8.487 lbs/gal)		
	ve density	Not determined.		
-	· density	Not determined.		
· Evapo	oration rate	Not determined.		
	in / Miscibility with	· · · · · · · · · · · · · · · · · · ·		
· Water		Not miscible or difficult to mix.		
· Partition	coefficient (n-octanol/wate	r): Not determined.		
· Viscosity:				
· Dynar		Not determined.		
	natic at 20 °C (68 °F):	40 s (ISO 4 mm)		
	g properties:	N.A.		
· Solvent c		0.0.07		
· Water		0.0 % 75.51 %		
· VOC 0	content:	75.57 % 767.9 g/l / 6.41 lb/gl		
Salida	content:	24.5 %		
		24.3 %		
108-88-3	mation (HAPS) toluene		15-19.9%	
1330-20-7			5-9.99%	
	ethylbenzene		1-2.49%	
	methyl methacrylate		0.5-1%	
			(Contd. on page 10)	
			US	

-US

(Contd. of page 9)



Safety Data Sheet 29 CFR Parts 1910 1915 1926

Version number 42

Reviewed on 02/19/2018

Product number LMT002

Printing date 02/19/2018

Trade name: pasta metallizzata grossa

· 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:

thyl aceta LD50		
LDJU	1 03/1 ma/ka (rehbit/krolik/Keninchen/coneio/lenin)	
LD50	4,934 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)	
	20,001 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)	
LC50/4 h	1,600 mg/l (rat/szczur/mouse/souris/Maus/ratón)	
	22.6 ppm (mouse)	
oluene		
LD50	5,000 mg/kg (rat/szczur/mouse/souris/Maus/ratón)	
LD50	12,124 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)	
LC50/4 h	25.7 mg/l (rat/szczur/mouse/souris/Maus/ratón)	
sobutyl a	cetate	
LD50	13,400 mg/kg (rat/szczur/mouse/souris/Maus/ratón)	
LD50	17,401 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)	
LC50/4 h	31 mg/l (rat/szczur/mouse/souris/Maus/ratón)	
xylene		
LD50.	3,523 mg/kg (rat/szczur/mouse/souris/Maus/ratón)	
LD50.	12,126 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)	
LC50/4h.	27.571 mg/l (rat/szczur/mouse/souris/Maus/ratón)	
n-butyl ac	etate	
LD50	10,760 mg/kg (rat/szczur/mouse/souris/Maus/ratón)	
LD50	14,000 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)	
LC50/4 h		
LD50	8,532 mg/kg (rat/szczur/mouse/souris/Maus/ratón)	
	LC0 oluene LD50 LD50 LC50/4 h sobutyl a LD50 LC50/4 h xylene LD50. LC50/4h. -butyl ac LD50 LD50 LD50 LD50 LD50	LC022.6 ppm (mouse)olueneLD505,000 mg/kg (rat/szczur/mouse/souris/Maus/ratón)LD5012,124 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)LC50/4 h25.7 mg/l (rat/szczur/mouse/souris/Maus/ratón)sobutyl ac-tateLD5013,400 mg/kg (rat/szczur/mouse/souris/Maus/ratón)LD5017,401 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)LC50/4 h31 mg/l (rat/szczur/mouse/souris/Maus/ratón)LD5017,401 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)LC50/4 h31 mg/l (rat/szczur/mouse/souris/Maus/ratón)LD503,523 mg/kg (rat/szczur/mouse/souris/Maus/ratón)LD5012,126 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)LC50/4h27.571 mg/l (rat/szczur/mouse/souris/Maus/ratón)LD5010,760 mg/kg (rat/szczur/mouse/souris/Maus/ratón)LD5010,760 mg/kg (rat/szczur/mouse/souris/Maus/ratón)LD5010,760 mg/kg (rat/szczur/mouse/souris/Maus/ratón)LD5010,760 mg/kg (rat/szczur/mouse/souris/Maus/ratón)LD5012,11 mg/l (rat/szczur/mouse/souris/Maus/ratón)LD5014,000 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)LC50/4 h21.1 mg/l (rat/szczur/mouse/souris/Maus/ratón)-methoxy-t-methylethyl acetate



Printing date 02/19/2018

Version number 42

Reviewed on 02/19/2018

Product number	·LMT002
Trade name:	pasta metallizzata grossa

		(Contd. of page 10)
Dermal	LD50	5,001 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative		35.7 mg/l (rat/szczur/mouse/souris/Maus/ratón)
64742-48-	-	a (petroleum), hydrotreated heavy
Oral	LD50	>5,000 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	>3,000 mg/kg (rab)
67-63-0 pi	ropan-2-o	I
Oral	LD50	4,710 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	12,800 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	72.6 mg/l (rat/szczur/mouse/souris/Maus/ratón)
100-41-4	-	ene
Oral	LD50	3,500 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	15,486 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
		17.2 mg/l (rat/szczur/mouse/souris/Maus/ratón)
64742-95-	6 Solvent	naphtha (petroleum), light arom.
Oral	LD50	6,801 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	3,401 mg/kg (rab)
		20.1 mg/l (rat/szczur/mouse/souris/Maus/ratón)
80-62-6 m	ethyl met	hacrylate
Oral	LD50	7,872 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	5,001 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	78 mg/l (rat/szczur/mouse/souris/Maus/ratón)
868-77-92	2-hydroxy	ethyl methacrylate
Oral	LD50	5,050 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
64-17-5 et	thanol	
Oral	LD50	10,470 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	20,000 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	124.7 mg/l (rat/szczur/mouse/souris/Maus/ratón)
• 0 • 0 • Sens	on the eye: sitization: S	<i>t effect: Irritant to skin and mucous membranes. Irritating effect. Sensitization possible through skin contact. ogical information:</i>
Causes Causes Suspec May ca May ca May be Contai	cted of dan nuse drows nuse dama fatal if sw ns methyl	ye irritation. naging the unborn child. siness or dizziness. ge to organs through prolonged or repeated exposure. rallowed and enters airways. methacrylate, 2-hydroxyethyl methacrylate, Fatty acids, tallow, oleylamine
· Cara Ethy Froi Hun Two styr was	cinogenic c vlbenzene m IARC M nan carcin o studies o ene polym s found but	produce an allergic reaction. ategories ONOGRAPHS VOLUME 77/2000 ogenicity data of workers potentially exposed to ethylbenzene in a production plant and a erization plant were available. In the first study, no excess of cancer incidence t the description of methods was insufficient to allow proper evaluation of this second study, no cancer mortality excess was observed during the follow-up (Contd. on page 12)

(Contd. of page 11)



Printing date 02/19/2018

Safety Data Sheet 29 CFR Parts 1910 1915 1926

Version number 42

Reviewed on 02/19/2018

Product number LMT002 Trade name: pasta metallizzata grossa

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 t	he ingredients is listed.		
	OSHA-Ca (Occupational Safety & Health Administration)		
None of t	he inaredients is listed.		

12 Ecological information

· Toxicity Harmful to aquatic life with long lasting effects.

· Aquatic t	•
141-78-6 et	hyl acetate
EC50	165 mg/l (daphnia) (48 h)
	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)
	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)
67-63-0 pro	pan-2-ol
EC50	1,001 mg/l (algae) (72 h)
	10,000 mg/l (daphnia) (24 h)
LC50 (96h)	9,640 mg/l (Fish)
	hylbenzene
EC50	75 mg/l (daphnia) (48 h)
	thyl methacrylate
EC50	170 mg/l (algae) (72 h)
LC50 (96h)	191 mg/l (Fish)
	(Contd. on page



Printing date 02/19/2018

Version number 42

Reviewed on 02/19/2018

Product number LMT002 Trade name: pasta metallizzata grossa

868-77-9 2	-hydroxyethyl methacrylate	(Contd. of page 12
LC50 (96h)	240 mg/l (Fish)	
64-17-5 et	hanol	
EC50	5,012 mg/l (daphnia) (48 h)	
LC50 (96h)	15.3 mg/l (Fish)	
Data refers	ce and degradability to the substance Toluene CAS N degradable (according to OECD o	
· Substan	ces Easily biodegradable	
141-78-6	ethyl acetate	
108-88-3	toluene	
110-19-0	isobutyl acetate	
1330-20-7		
	n-butyl acetate	
	2-methoxy-1-methylethyl acetate	
	propan-2-ol	
100-41-4	ethylbenzene	
64-17-5	•	
• General Water h Do not a Danger	azard class 2 (Self-assessment):	er, water course or sewage system.
Other adv	erse effects No further relevant in	formation available.
Disposa	l considerations	
• R ecomm Must ne sewage Hand o	system. ver to hazardous waste disposers.	household garbage. Do not allow product to reac ordance with local state and federal regulations.
	l packagings: nendation: Disposal must be made	according to official regulations.
· Recomm	nendation: Disposal must be made	according to official regulations.

· UN-Number		
· DOT	NA 1263	
· IMDG, IATA	UN1263	

(Contd. on page 14)

[—] US



Printing date 02/19/2018

Version number 42

Reviewed on 02/19/2018

roduct number LMT002 rade name: pasta metallizzata grossa	
	(Contd. of page
• UN proper shipping name • DOT • IMDG, IATA	Paint PAINT
· Transport hazard class(es)	
· DOT	
RAMMALE LOUD	
· Class	3 Flammable liquids
· Label	3
· Class · Label	3 Flammable liquids 3
· IMDG, IATA	5
· Class · Label	3 Flammable liquids 3
• Packing group • DOT, IMDG, IATA	11
• Environmental hazards: • Marine pollutant:	No
 Special precautions for user 	Warning: Flammable liquids
• Danger code (Kemler):	33
· EMS Number: · Stowage Category	F-E, <u>S-E</u> B
Transport in bulk according to Annex	
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· IMDG	
\cdot Limited quantities (LQ)	5L
\cdot Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: ml
	Maximum net quantity per outer packagir 500 ml
· UN "Model Regulation":	UN 1263 PAINT, SPECIAL PROVISION 640D, 3,

15 Regulatory information

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

Requirements of Federal Register

(Contd. on page 15)

⁻ US



Printing date 02/19/2018

Version number 42

Reviewed on 02/19/2018

Product number LMT002 Trade name: pasta metallizzata grossa

· Sect	on 355 (extremely hazardous substances).	•		
	e ingredients is listed.			
	ion 313 (Specific toxic chemical listings) :			
108-88-3				15-19.99
1330-20-7				5-9.99%
	aluminium powder (stabilised)			5-9.99%
	propan-2-ol			1-2.49%
	ethylbenzene			1-2.49%
	methyl methacrylate			0.5-1%
	3 butanone		<0.01%	
	Toxic Substances Control Act):			
	ents are listed.			
· Proposi				
-	nicals known to cause cancer:			
	ethylbenzene			* 1-2.49
	nicals known to cause reproductive toxici	ty for fomalos.		
	4 2-methoxypropyl acetate	ly for females:		<0.019
				<0.017
	nicals known to cause reproductive toxici	ty for males:		
	e ingredients is listed.			
	nicals known to cause developmental toxi	city:		
108-88-3				5-19.9%
64-17-5	ethanol ≥0.1-<		0.1-<0.59	
· Carcino	genic categories			
· EPA	(Environmental Protection Agency)			
108-88-3	toluene			15-19.9
1330-20-7	xylene		1	5-9.99%
100-41-4	ethylbenzene		D	1-2.49%
	methyl methacrylate		E, NL	0.5-1%
80-62-6	butanone		1	<0.01%
			•	
78-93-3	(Threshold Limit Value established by A	JGIH)		
78-93-3	-	CGIH)		A
78-93-3 · TLV	toluene			
78-93-3 · TLV 108-88-3 1330-20-7	toluene			A A A
78-93-3 · TLV 108-88-3 1330-20-7 7429-90-5	toluene xylene			A
78-93-3 · TLV 108-88-3 1330-20-7 7429-90-5 67-63-0	toluene xylene aluminium powder (stabilised)			A A
78-93-3 · TLV 108-88-3 1330-20-7 7429-90-5 67-63-0 100-41-4	toluene xylene aluminium powder (stabilised) propan-2-ol			A A A A A
78-93-3 • TLV 108-88-3 1330-20-7 7429-90-5 67-63-0 100-41-4 80-62-6	toluene xylene aluminium powder (stabilised) propan-2-ol ethylbenzene			A A A

· National regulations:

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

(Contd. on page 16)

US



Version number 42

Reviewed on 02/19/2018

Product number LMT002

Printing date 02/19/2018

Trade name: pasta metallizzata grossa

(Contd. of page 15)

US

· 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 / 41	
· 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, EU)	
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. Lig. 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	
Aconor ECHA wob site	
Agency ECHA web site	
INRS Fiche Toxicologique	
IARC International agency for research on cancer	

