Meccano	car Italia S.r.I.	Revision nr. 2
		Dated 28/02/2020
ZINC CHE	ROME SPRAY	Printed on 28/02/2020
		Page n. 1/25
		Replaced revision:1 (Dated: 25/02/2019)
Accord	Safety Data Sheet ling to Annex II to REACH - Regulation 2015/830	
SECTION 1. Identification of the subs	stance/mixture and of the company/under	taking
1.1. Product identifier		
Code:	411 00 17520-4390	
Product name	ZINC CHROME SPRAY	
1.2. Relevant identified uses of the substance or n Intended use Protective spray pain		
1.3. Details of the supplier of the safety data sheet Name	Meccanocar Italia S.r.I.	
Full address	Via San Francesco, 22	
District and Country	56033 Capannoli (PI)	
	Tel. +39 0587 609433	
	Fax +39 0587 607145	
e-mail address of the competent person		
responsible for the Safety Data Sheet	moreno.meini@meccanocar.it	
1.4. Emergency telephone number		
For urgent inquiries refer to	National Poisons Information Service: +44 121 507 4123	
SECTION 2. Hazards identification		
2.1. Classification of the substance or mixture		

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:	H222	Extremely flammable aerosol.
Aerosol, category 1	H229	Pressurised container: may burst if heated.
Skin irritation, category 2 Specific target organ toxicity - single exposure, category 3 Hazardous to the aquatic environment, chronic toxicity, category 3	H315 H336 H412	Causes skin irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

				Dated 28/02/2020
		ZINC CHR	OME SPRAY	Printed on 28/02/2020
				Page n. 2/25
				Replaced revision:1 (Dated: 25/02/2019)
Hazard pictograms:				
Signal words:	Danger			
azard statements:				
H222 H229 H315 H336 H412	Pressurised Causes ski May cause	drowsiness or diz	burst if heated.	
recautionary stateme	ents:			
P210	Keep away	from heat, hot su	where a second former and athen inviting a surgery N	o smoking
			Inaces, sparks, open names and other ignition sources. No	
-		ce or burn, even a		o onioking.
P410+P412	Protect from	ce or burn, even a n sunlight. Do no	after use. expose to temperatures exceeding 50°C / 122°F.	o oniolang.
P251 P410+P412 P211 P261 P280 .3. Other hazards	Protect from Do not spra Avoid breat	ce or burn, even a n sunlight. Do no ay on an open flar hing dust / fume /	after use.	o onioning.
P410+P412 P211 P261 P280 3. Other hazards	Protect from Do not spra Avoid breat Wear prote	ce or burn, even a n sunlight. Do no y on an open flar hing dust / fume / ctive gloves/ prote	after use. expose to temperatures exceeding 50°C / 122°F. me or other ignition source. / gas / mist / vapours / spray.	o onioning.
P410+P412 P211 P261 P280 3. Other hazards	Protect from Do not spra Avoid breat Wear prote	ce or burn, even a n sunlight. Do no y on an open flar hing dust / fume / ctive gloves/ prote	after use. expose to temperatures exceeding 50°C / 122°F. me or other ignition source. / gas / mist / vapours / spray. ective clothing / eye protection / face protection.	o on only ing.
P410+P412 P211 P261 P280 3. Other hazards In the basis of availat SECTION 3. C 3.2. Mixtures ontains:	Protect from Do not spra Avoid breat Wear prote	ce or burn, even a n sunlight. Do no ay on an open flar hing dust / fume / ctive gloves/ prote	after use. expose to temperatures exceeding 50°C / 122°F. me or other ignition source. / gas / mist / vapours / spray. ective clothing / eye protection / face protection. ain any PBT or vPvB in percentage greater than 0,1%. on ingredients	o on only ing.
P410+P412 P211 P261 P280 3. Other hazards n the basis of availal SECTION 3. C 3.2. Mixtures ontains: Identification	Protect from Do not spra Avoid breat Wear prote	ce or burn, even a n sunlight. Do no y on an open flar hing dust / fume / ctive gloves/ prote	after use. expose to temperatures exceeding 50°C / 122°F. me or other ignition source. / gas / mist / vapours / spray. ective clothing / eye protection / face protection.	o on only ing.
P410+P412 P211 P261 P280 3. Other hazards n the basis of availal SECTION 3. C 3.2. Mixtures ontains: Identification XYLENE (MIXTURE	Protect from Do not spra Avoid breat Wear prote	ce or burn, even a n sunlight. Do no ay on an open flar hing dust / fume / ctive gloves/ prote act does not conta information	after use. expose to temperatures exceeding 50°C / 122°F. me or other ignition source. / gas / mist / vapours / spray. ective clothing / eye protection / face protection. ain any PBT or vPvB in percentage greater than 0,1%. on ingredients Classification 1272/2008 (CLP)	
P410+P412 P211 P261 P280 3. Other hazards n the basis of availat SECTION 3. C 3.2. Mixtures ontains: Identification XYLENE (MIXTURE CAS 1330-20-7	Protect from Do not spra Avoid breat Wear prote	ce or burn, even a n sunlight. Do no ay on an open flar hing dust / fume / ctive gloves/ prote	after use. expose to temperatures exceeding 50°C / 122°F. me or other ignition source. / gas / mist / vapours / spray. ective clothing / eye protection / face protection. ain any PBT or vPvB in percentage greater than 0,1%. on ingredients	332, Skin Irrit. 2 H315,
P410+P412 P211 P261 P280 3. Other hazards n the basis of availat SECTION 3. C 3.2. Mixtures ontains: Identification XYLENE (MIXTURE CAS 1330-20-7	Protect from Do not spra Avoid breat Wear prote	ce or burn, even a n sunlight. Do no ay on an open flar hing dust / fume / ctive gloves/ prote act does not conta information	after use. expose to temperatures exceeding 50°C / 122°F. me or other ignition source. / gas / mist / vapours / spray. ective clothing / eye protection / face protection. ain any PBT or vPvB in percentage greater than 0,1%. on ingredients Classification 1272/2008 (CLP) Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H	332, Skin Irrit. 2 H315,
P410+P412 P211 P261 P280 3. Other hazards n the basis of availat SECTION 3. C 3.2. Mixtures ontains: Identification XYLENE (MIXTURE CAS 1330-20-7 EC 215-535-7	Protect from Do not spra Avoid breat Wear prote	ce or burn, even a n sunlight. Do no ay on an open flar hing dust / fume / ctive gloves/ prote act does not conta information	after use. expose to temperatures exceeding 50°C / 122°F. me or other ignition source. / gas / mist / vapours / spray. ective clothing / eye protection / face protection. ain any PBT or vPvB in percentage greater than 0,1%. on ingredients Classification 1272/2008 (CLP) Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H	332, Skin Irrit. 2 H315,
P410+P412 P211 P261 P280 3. Other hazards n the basis of availal SECTION 3. C 3.2. Mixtures ontains: Identification XYLENE (MIXTURE CAS 1330-20-7 EC 215-535-7 INDEX 601-022-00	Protect from Do not spra Avoid breat Wear prote	ce or burn, even a n sunlight. Do no ay on an open flar hing dust / fume / ctive gloves/ prote act does not conta information	after use. expose to temperatures exceeding 50°C / 122°F. me or other ignition source. / gas / mist / vapours / spray. ective clothing / eye protection / face protection. ain any PBT or vPvB in percentage greater than 0,1%. on ingredients Classification 1272/2008 (CLP) Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H	332, Skin Irrit. 2 H315,
P410+P412 P211 P261 P280 3. Other hazards in the basis of availal SECTION 3. C 3.2. Mixtures ontains: Identification XYLENE (MIXTURE CAS 1330-20-7 EC 215-535-7 INDEX 601-022-00 Reg. no. 01-21194	Protect from Do not spra Avoid breat Wear prote	ce or burn, even a n sunlight. Do no ay on an open flar hing dust / fume / ctive gloves/ prote act does not conta information	after use. expose to temperatures exceeding 50°C / 122°F. me or other ignition source. / gas / mist / vapours / spray. ective clothing / eye protection / face protection. ain any PBT or vPvB in percentage greater than 0,1%. on ingredients Classification 1272/2008 (CLP) Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H	332, Skin Irrit. 2 H315,
P410+P412 P211 P261 P280 3. Other hazards a the basis of availat SECTION 3. C 3.2. Mixtures ontains: Identification XYLENE (MIXTURE CAS 1330-20-7 EC 215-535-7 INDEX 601-022-00 Reg. no. 01-211943 PROPANE	Protect from Do not spra Avoid breat Wear prote	ce or burn, even a n sunlight. Do no ay on an open flar hing dust / fume / ctive gloves/ prote act does not conta information	after use. expose to temperatures exceeding 50°C / 122°F. me or other ignition source. / gas / mist / vapours / spray. ective clothing / eye protection / face protection. ain any PBT or vPvB in percentage greater than 0,1%. on ingredients Classification 1272/2008 (CLP) Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H Classification note according to Annex VI to the CLP F	332, Skin Irrit. 2 H315, Regulation: C
P410+P412 P211 P261 P280 3. Other hazards an the basis of availal SECTION 3. C 3.2. Mixtures ontains: Identification XYLENE (MIXTURE) CAS 1330-20-7 EC 215-535-7 INDEX 601-022-00 Reg. no. 01-211944 PROPANE CAS 74-98-6	Protect from Do not spra Avoid breat Wear prote	ce or burn, even a n sunlight. Do no ay on an open flar hing dust / fume / ctive gloves/ protective act does not contaction information x = Conc. % $27 \le x < 28,5$	after use. expose to temperatures exceeding 50°C / 122°F. me or other ignition source. / gas / mist / vapours / spray. ective clothing / eye protection / face protection. ain any PBT or vPvB in percentage greater than 0,1%. on ingredients Classification 1272/2008 (CLP) Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H Classification note according to Annex VI to the CLP F	332, Skin Irrit. 2 H315, Regulation: C
P410+P412 P211 P261 P280 3. Other hazards In the basis of availab SECTION 3. C 3.2. Mixtures ontains: Identification XYLENE (MIXTURE) CAS 1330-20-7 EC 215-535-7 INDEX 601-022-00 Reg. no. 01-211944 PROPANE CAS 74-98-6 EC 200-827-9	Protect from Do not spra Avoid breat Wear prote	ce or burn, even a n sunlight. Do no ay on an open flar hing dust / fume / ctive gloves/ protective act does not contaction information x = Conc. % $27 \le x < 28,5$	after use. expose to temperatures exceeding 50°C / 122°F. me or other ignition source. / gas / mist / vapours / spray. ective clothing / eye protection / face protection. ain any PBT or vPvB in percentage greater than 0,1%. on ingredients Classification 1272/2008 (CLP) Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H Classification note according to Annex VI to the CLP F	332, Skin Irrit. 2 H315, Regulation: C
P410+P412 P211 P261 P280 3. Other hazards In the basis of availal SECTION 3. C 3.2. Mixtures ontains: Identification XYLENE (MIXTURE) CAS 1330-20-7 EC 215-535-7 INDEX 601-022-00 Reg. no. 01-211944 PROPANE CAS 74-98-6 EC 200-827-9 INDEX 601-003-00	Protect from Do not spra Avoid breat Wear prote	ce or burn, even a n sunlight. Do no ay on an open flar hing dust / fume / ctive gloves/ protective act does not contaction information x = Conc. % $27 \le x < 28,5$	after use. expose to temperatures exceeding 50°C / 122°F. me or other ignition source. / gas / mist / vapours / spray. ective clothing / eye protection / face protection. ain any PBT or vPvB in percentage greater than 0,1%. on ingredients Classification 1272/2008 (CLP) Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H Classification note according to Annex VI to the CLP F	332, Skin Irrit. 2 H315, Regulation: C
P410+P412 P211 P261 P280 3. Other hazards In the basis of availal SECTION 3. C 3.2. Mixtures ontains: Identification XYLENE (MIXTURE) CAS 1330-20-7 EC 215-535-7 INDEX 601-022-00 Reg. no. 01-211944 PROPANE CAS 74-98-6 EC 200-827-9 INDEX 601-003-00 Reg. no. 01-211944	Protect from Do not spra Avoid breat Wear prote	ce or burn, even a n sunlight. Do no ay on an open flar hing dust / fume / ctive gloves/ protective act does not contaction information x = Conc. % $27 \le x < 28,5$	after use. expose to temperatures exceeding 50°C / 122°F. me or other ignition source. / gas / mist / vapours / spray. ective clothing / eye protection / face protection. ain any PBT or vPvB in percentage greater than 0,1%. on ingredients Classification 1272/2008 (CLP) Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H Classification note according to Annex VI to the CLP F	332, Skin Irrit. 2 H315, Regulation: C
P410+P412 P211 P261 P280 .3. Other hazards on the basis of availal SECTION 3. C	Protect from Do not spra Avoid breat Wear prote	ce or burn, even a n sunlight. Do no ay on an open flar hing dust / fume / ctive gloves/ protective act does not contaction information x = Conc. % $27 \le x < 28,5$	after use. expose to temperatures exceeding 50°C / 122°F. me or other ignition source. / gas / mist / vapours / spray. ective clothing / eye protection / face protection. ain any PBT or vPvB in percentage greater than 0,1%. on ingredients Classification 1272/2008 (CLP) Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H Classification note according to Annex VI to the CLP F	332, Skin Irrit. 2 H315, Regulation: C

	Meccanoca	ar Italia S.r.I.	Revision nr. 2	
			Dated 28/02/2020	
	ZINC CHRC	OME SPRAY	Printed on 28/02/2020	
			Page n. 3/25	
			Replaced revision:1 (Dated: 25/02/2019)	
EC 931-254-9				
INDEX -				
Reg. no. 01-2119484651-34-XXXX				
HYDROCARBONS C4				
CAS 87741-01-3	10,5 ≤ x < 12	Flam. Gas 1A H220, Press. Gas H280, Classification VI to the CLP Regulation: H K U	note according to Annex	
EC 289-339-5		VI to the CLP Regulation. H K O		
INDEX 649-113-00-2				
Reg. no. 01-2119475607-28-XXXX				
ALUMINIUM POWDER (STABILIZED) CAS 7429-90-5	4,5≤x< 5	Flam. Sol. 1 H228, Water-react. 2 H261, Classification Annex VI to the CLP Regulation: T	n note according to	
EC 231-072-3		Annex who the OEF Regulation. T		
INDEX 013-002-00-1				
Reg. no. 01-2119529243-45-XXXX				
ETHYL ACETATE				
CAS 141-78-6	$2,5 \le x < 3$	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H33	6, EUH066	
EC 205-500-4				
INDEX 607-022-00-5				
Reg. no. 01-2119475103-46-XXXX				
HYDROCARBONS, C14-C18, N- ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS CAS -	2,5 ≤ x < 3	Asp. Tox. 1 H304		
EC 927-632-8				
INDEX -				
Reg. no. 01-2119457736-27-XXXX				

The full wording of hazard (H) phrases is given in section 16 of the sheet.

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants.

Percentage of propellants: 23,00 %

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

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

ZINC CHROME SPRAY

Revision nr. 2

Dated 28/02/2020 Printed on 28/02/2020

Page n. 4/25 Replaced revision:1 (Dated: 25/02/2019)

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

6.2. Environmental precautions

Do not disperse in the environment.

6.3. Methods and material for containment and cleaning up

Use inert absorbent material to soak up leaked product. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour

Meccanocar Italia S.r.I.	Revision nr. 2
	Dated 28/02/2020
ZINC CHROME SPRAY	Printed on 28/02/2020
	Page n. 5/25
	Replaced revision:1 (Dated: 25/02/2019)

accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

7.2. Conditions for safe storage, including any incompatibilities

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST)
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition,published 2018)
ITA	Italia	DIRETTIVA (UE) 2017/164 DELLA COMMISSIONE del 31 gennaio 2017
NOR	Norge	Fastsatt av Arbeids- og sosialdepartementet 21. august 2018 med hjemmel i lov 17. juni 2005 nr. 62 om arbeidsmiljø, arbeidstid, stillingsvern mv. (arbeidsmiljøloven) § 1-3, § 1-4 og § 4-5
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
EU	OEL EU	Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2019

XYLENE (MIXTURE OF ISOMERS)

Туре	rpe Country TWA/8h			STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
VLA	ESP	221	50	442	100	SKIN	
VLEP	FRA	221	50	442	100	SKIN	
WEL	GBR	220	50	441	100	SKIN	
VLEP	ITA	221	50	442	100	SKIN	
TLV	NOR	108	25			SKIN	
VLE	PRT	221	50	442	100	SKIN	
OEL	EU	221	50	442	100	SKIN	
TLV-ACGIH		434	100	651	150		
Predicted no-effect con	ncentration - PNEC						
Normal value in fresh v	vater			0,327	r	ng/l	
Normal value in marine	e water			0,327	n	ng/l	
Normal value for fresh	water sediment			12,46	r	ng/kg	
Normal value for marin	e water sediment			12,46	n	ng/kg	
Normal value of STP m	nicroorganisms			6,58	r	ng/l	
Normal value for the te	rrestrial compartment			2,31	r	ng/kg	
Health - Derived no	o-effect level - DNEL /	DMEL			Effects on		

Effects on consumers Effects on workers

ZINC CHROME SPRAY

Revision nr. 2

Dated 28/02/2020 Printed on 28/02/2020

Page n. 6/25

Replaced revision:1 (Dated: 25/02/2019)

Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				12,5 mg/kg bw/d		0,0101110		0,000
Inhalation	260 mg/m3	260 mg/m3	65,3 mg/m3	65,3 mg/m3	442 mg/m3	442 mg/m3	221 mg/m3	221 mg/m3
Skin				125 mg/kg bw/d				212 mg/kg bw/d
PROPANE Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks Observati		
		mg/m3	ppm	mg/m3	ppm	00001144		
VLA	ESP		1000					
TLV	NOR	900	500					
TLV-ACGIH			1000					
HYDROCARBONS, C6,	ISOALKANS, <5%	N-HEXANE						
Threshold Limit Value Type	Country	TWA/8h		STEL/15min		Remarks Observati		
		mg/m3	ppm	mg/m3	ppm	Coorrai		
TLV-ACGIH		1441	400					
Health - Derived no-effe	ect level - DNEL / I Effects on consumers	DMEL			Effects on			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	workers Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				1301 mg/kg bw/d		y		,
Inhalation				1131 mg/m3				5306 mg/m3
Skin				1377 mg/kg bw/d				13964 mg/k bw/d
HYDROCARBONS C4								
Threshold Limit Value Type	Country	TWA/8h		STEL/15min		Remarks	1	
Type	Country					Observati		
		mg/m3	ppm	mg/m3	ppm			
TLV-ACGIH			1000					
Health - Derived no-effe	Effects on	DWEL			Effects on			
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
·		, louio byolonno	enionio local	systemic 0,0664	/louio looal	systemic		systemic
Inhalation				0,0664 mg/m3				2,21 mg/m3
Skin								23,4 mg/kg bw/d
ALUMINIUM POWDER (Threshold Limit Value	STABILIZED)							
Type	Country	TWA/8h		STEL/15min		Remarks		
		mg/m3	ppm	mg/m3	ppm	Observati	0115	
VLA	ESP	10						
VLEP	FRA	5						
	000	4				RESP		
WEL	GBR	-						

	Мес	canocar It	alia S.r.I.				Revision nr. 2	
							Dated 28/02/2020	
	ZINC	CHROME	SPRAY				Printed on 28/02/2020	
							Page n. 7/25	/_ /_ / _ / _ / _ /
							Replaced revision:1 (Date	ed: 25/02/2019)
T L \ /	NOD							
TLV	NOR	2						
TLV-ACGIH		1	0,9					
Health - Derived no-effect le	evel - DNEL / DI Effects on consumers	MEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				7,9 mg/kg bw/d				
Inhalation							3,72 mg/m3	3,72 mg/m3
ETHYL ACETATE								
Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Rema Obse	arks / rvations	
		mg/m3	ppm	mg/m3	ppm			
VLA	ESP	734	200	1468	400			
VLEP	FRA	1400	400					
WEL	GBR	734	200	1468	400			
VLEP	ITA	734	200	1468	400			
TLV	NOR	734	200					_
VLE	PRT	734	200	1468	400			
OEL	EU	734	200	1468	400			
TLV-ACGIH		1441	400					
Predicted no-effect concentration	- PNEC							
Normal value in fresh water				0,24	mg/l	l		
Normal value in marine water				0,024	mg/l			
Normal value for fresh water sedi	ment			1,15	mg/l	kg		
Normal value for marine water se	diment			0,115	mg/l	kg		
Normal value of STP microorgani	sms			650	mg/l			
Normal value for the food chain (s	secondary poisonir	ng)		0,2	mg/l	kg		
Normal value for the terrestrial co	mpartment			0,148	mg/l	kg		
Health - Derived no-effect lo	evel - DNEL / DI Effects on consumers	MEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				4,5 mg/kg bw/d				
Inhalation	734 mg/m3	734 mg/m3	367 mg/m3	367 mg/m3	1468 mg/m3	1468 mg/	/m3 734 mg/m3	734 mg/m3
Skin				37 mg/kg bw/d				63 mg/kg bw/d
Legend:								

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

ZINC CHROME SPRAY

Revision nr. 2 Dated 28/02/2020 Printed on 28/02/2020 Page n. 8/25

Replaced revision:1 (Dated: 25/02/2019)

When choosing personal protective equipment, ask your chemical substance supplier for advice. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION None required.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387). Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

HYDROCARBONS, C6, ISOALKANS, <5% N-HEXANE

Chemical resistant gloves are recommended. Nitrile, standards CEN EN 420 and EN 374 provide general requirements and lists of types of gloves.

HYDROCARBONS C4

Wear insulating gloves if contact with liquid is possible. The gloves selected must meet the European standard EN 511 for protection from the cold.

ALUMINIUM POWDER (STABILIZED)

Handle according to good industrial hygiene and safety practices. Wear suitable protective clothing and equipment.

ETHYL ACETATE

Butyl rubber gloves (opening times> 480 minutes), Neoprene ™ rubber, nitrile rubber (opening times up to 480 minutes).

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	aerosol
Colour	grey
Odour	characteristic of solvent
Odour threshold	Not available

ZINC CHROME SPRAY

Revision nr. 2
Dated 28/02/2020
Printed on 28/02/2020
Page n. 9/25
Replaced revision:1 (Dated: 25/02/2019)

рН	Not available
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	< 0 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	>1
Relative density	0,72
Solubility	insoluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available
9.2. Other information	
VOC (Directive 2010/75/EC) :	72.68 % - 526.93

VOC (Directive 2010/75/EC) :	72,68 %	-	526,93	g/litre
VOC (volatile carbon) :	91,46 %	-	663,11	g/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

ETHYL ACETATE

It slowly decomposes to acetic acid and ethanol due to the action of light, air and water. Stable under normal conditions. Upon storage, it is slowly decomposed by water.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

XYLENE (MIXTURE OF ISOMERS)

ZINC CHROME SPRAY

Revision nr. 2

Dated 28/02/2020

Printed on 28/02/2020

Page n. 10/25

Replaced revision:1 (Dated: 25/02/2019)

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

HYDROCARBONS C4

Vapors can form an explosive mixture with air

ETHYL ACETATE

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

10.4. Conditions to avoid

Avoid overheating.

HYDROCARBONS, C6, ISOALKANS, <5% N-HEXANE

Open flames and high energy ignition sources.

HYDROCARBONS C4

Heat, sparks, open flames, other sources of ignition and oxidizing conditions

ETHYL ACETATE

Avoid exposure to: light, sources of heat, naked flames.

Ignition sources.

10.5. Incompatible materials

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

HYDROCARBONS, C6, ISOALKANS, <5% N-HEXANE

Strong oxidants.

HYDROCARBONS C4

Strong oxidizing agents, halogenated hydrocarbons, nitrogen dioxide, fluorine compounds, halogens (bromine, chlorine, fluorine), metal catalysts

ETHYL ACETATE

Incompatible with: acids,bases,strong oxidants,aluminium,nitrates,chlorosulphuric acid.Incompatible materials: plastic materials.

ZINC CHROME SPRAY

Revision nr. 2

Dated 28/02/2020 Printed on 28/02/2020

Page n. 11/25

Replaced revision:1 (Dated: 25/02/2019)

Oxidizing agents, acids, alkalis.

10.6. Hazardous decomposition products

HYDROCARBONS C4

Thermal decomposition can produce carbon oxides and other toxic gases and release heat and pressure

ETHYL ACETATE

Carbon oxides on combustion.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

XYLENE (MIXTURE OF ISOMERS)

WORKERS: inhalation; contact with the skin. POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

XYLENE (MIXTURE OF ISOMERS)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

Interactive effects

XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: > 20 mg/l LD50 (Oral) of the mixture: Not classified (no significant component) LD50 (Dermal) of the mixture: >2000 mg/kg

ZINC CHROME SPRAY

Revision nr. 2 Dated 28/02/2020 Printed on 28/02/2020 Page n. 12/25 Replaced revision:1 (Dated: 25/02/2019)

HYDROCARBONS, C6, ISOALKANS, <5% N-HEXANE

LD50 (Oral) > 25 mg/kg Rat

LD50 (Dermal) > 5 mg/kg Rabbit

LC50 (Inhalation) 73860 ppm/4h Rat

XYLENE (MIXTURE OF ISOMERS)

Method: Equivalent or similar to EU Method B.1 Reliability: 1 Species: Rat (F344 / N; male / female) Route of exposure: Oral Results: LD50 = 3523 mg / kg bw Method: Equivalent or similar to EU Method B.2 Reliability: 2 Species: Rat (male) Route of exposure: Inhalation (vapors) Results: LD50 = 6700 ppm

PROPANE

Method: To study the concentrations at which the effects of the CNS occur following exposure by inhalation to propane by measuring LC50 (15 min) and EC50 (CNS) (10 min) in rats. Reliability: 2 Species: Rat (Alderley Park (SPF); male / female) Route of exposure: Inhalation Results: LC50> 800 000 ppm

HYDROCARBONS, C6, ISOALKANS, <5% N-HEXANE

Method: Equivalent or similar to OECD 401 Reliability: 1 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Oral Results: LD50:> 5 000 mg / kg bw Method: Equivalent or similar to OECD 403 Reliability: 1 Species: Rat (Crj: CD (SD); male / female) Route of exposure: Inhalation (vapors) Results: LC50:> 4 951 mg / m³ air Method: Equivalent or similar to OECD 402 Reliability: 1 Species: Rat (Crj: CD (SD); male / female) Route of exposure: Dermal Results: LD50:> 2 000 mg / kg bw

HYDROCARBONS C4

Method: Not indicated-Read across Reliability: 2 Species: Rat (Alderley Park; male / female) Route of exposure: Inhalation Results: LC50 = 1443 mg / L air

HYDROCARBONS, C14-C18, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

ZINC CHROME SPRAY

Revision nr. 2 Dated 28/02/2020 Printed on 28/02/2020

Page n. 13/25

Replaced revision:1 (Dated: 25/02/2019)

Method: Equivalent or similar to OECD 401 Reliability: 2 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Oral Results: LD50> 5000 mg / kg bw Method: Equivalent or similar to OECD 403 Reliability: 1 Species: Rat (Crl: CDBR; male / female) Route of exposure: Inhalation (aerosol) Results: LC50> 5266 mg / m3 air Method: Equivalent or similar to OECD 402 Reliability: 2 Species: Rabbit (New Zealand White; male / female) Route of exposure: Dermal Results: LD50> 3160 mg / kg bw

ETHYL ACETATE

Method: Multi-Substance Rule for the Testing of Neurotoxicity 40 CFR Part 799 (58 FR 40262) Reliability: 1 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Inhalation (vapors) Results: Negative Method: Not indicated Reliability: 2 Species: Rabbit (New Zealand White; male) Route of exposure: Dermal Results: LD50> 20 000 mg / kg bw

SKIN CORROSION / IRRITATION

Causes skin irritation

HYDROCARBONS, C6, ISOALKANS, <5% N-HEXANE

Method: OECD 404 Reliability: 1 Species: Rabbit (New Zealand White) Route of exposure: Dermal Results: Irritating

HYDROCARBONS, C14-C18, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

Method: OECD 404 Reliability: 2 Species: Rabbit (SPF) Route of exposure: Dermal Results: Not irritating

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

HYDROCARBONS, C6, ISOALKANS, <5% N-HEXANE

Method: OECD 405 Reliability: 1 Species: Rabbit (New Zealand White) Route of exposure: Ocular Results: Not irritating

ZINC CHROME SPRAY

Revision nr. 2

Dated 28/02/2020 Printed on 28/02/2020

Page n. 14/25

Replaced revision:1 (Dated: 25/02/2019)

HYDROCARBONS, C14-C18, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

Method: OECD 405 Reliability: 2 Species: Rabbit (albino SPF) Route of exposure: Ocular Results: Not irritating

ETHYL ACETATE

Method: OECD 405 Reliability: 2 Species: Rabbit (New Zealand White) Route of exposure: Ocular Results: Not irritating

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

HYDROCARBONS, C6, ISOALKANS, <5% N-HEXANE

Method: Equivalent or similar to OECD 406 Reliability: 2 Species: guinea pig (Hartley; female) Route of exposure: Dermal Results: Not sensitizing

HYDROCARBONS, C14-C18, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

Method: Equivalent or similar to OECD 406 Reliability: 2 Species: guinea pig (Hartley; female) Route of exposure: Dermal Results: Not sensitizing

Skin sensitization ETHYL ACETATE

Method: OECD 406 Reliability: 1 Species: guinea pig (Dunkin-Hartley; female) Route of exposure: Dermal Results: Not sensitizing

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

XYLENE (MIXTURE OF ISOMERS)

Method: Equivalent or similar to EU Method B.10-in vitro test Reliability: 2 Species: Chinese hamster Results: Negative with and without metabolic activation Method: Equivalent or similar to OECD 478 Reliability: 2 Species: Mouse (Swiss Webster; male / female)

ZINC CHROME SPRAY

Revision nr. 2 Dated 28/02/2020 Printed on 28/02/2020 Page n. 15/25

Replaced revision:1 (Dated: 25/02/2019)

Route of exposure: Dermal Results: Negative

PROPANE

Method: OECD 471 in vitro test Reliability: 1 Species: Histidine Salmonella Results: Negative with or without metabolic activation Method: OECD 474-test in vivo Reliability: 1 Species: Rat (Sprague-Dawley CD; male / female) Route of exposure: Inhalation (gas) Results: Negative

HYDROCARBONS, C6, ISOALKANS, <5% N-HEXANE

Method: Equivalent or similar to OECD 471 - in vitro test Reliability: 1 Species: S. typhimurium Results: Negative with and without metabolic activation Method: Equivalent or similar to OECD 474 - in vivo test Reliability: 1 Species: Mouse (CD-1; male / female) Route of exposure: Oral Results: Negative

HYDROCARBONS C4

Method: OECD 471-in vitro test-Read across Reliability: 1 Species: S. typhimurium Results: Negative with and without metabolic activation Method: Not indicated - in vivo test - Read across Reliability: 2 Species: Rat (Fischer 344; male) Route of exposure: Inhalation (gas) Results: Negative

HYDROCARBONS, C14-C18, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

Method: Equivalent or similar to OECD 471 in vitro test Reliability: 1 Species: S. typhimurium Results: Negative with and without metabolic activation Method: Equivalent or similar to OECD 474 in vivo test Reliability: 1 Species: Mouse (CD-1; male / female) Route of exposure: Oral Results: Negative

ETHYL ACETATE

Method: Equivalent or similar to OECD 471 in vitro test Reliability: 2 Species: S. typhimurium Results: Negative with and without metabolic activation Method: Equivalent or similar to OECD 474 in vivo test Reliability: 2 Species: Chinese hamster (male / female) Route of exposure: Oral Results: Negative

Revision nr. 2 Meccanocar Italia S.r.l. Dated 28/02/2020 Printed on 28/02/2020 ZINC CHROME SPRAY Page n. 16/25 Replaced revision:1 (Dated: 25/02/2019) CARCINOGENICITY Does not meet the classification criteria for this hazard class XYLENE (MIXTURE OF ISOMERS) Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential". HYDROCARBONS, C6, ISOALKANS, <5% N-HEXANE Method: Equivalent or similar to OECD 403 Reliability: 1 Species: Rat (F344 / N; male / female) Route of exposure: Inhalation (vapors) Results: Negative. The NOAEC for rat females was determined to be 2200 mg / m3. The NOAEC for male rats was determined to be 138 mg / m3. HYDROCARBONS C4 Method: Equivalent or similar to EPA OPP 83-5-Read across Reliability: 1 Species: Rat (Fischer 344; male / female) Route of exposure: Oral Results: Negative REPRODUCTIVE TOXICITY Does not meet the classification criteria for this hazard class ETHYL ACETATE Method: Equivalent or similar to OECD 416 Reliability: 1 Species: Mouse (CD-1; male / female) Route of exposure: Oral Results: Negative Method: Equivalent or similar to OECD 414 Reliability: 2 Species: Rat (Sprague-Dawley) Route of exposure: Inhalation Results: Negative Adverse effects on sexual function and fertility XYLENE (MIXTURE OF ISOMERS) Method: Not indicated Reliability: 2 Species: Rat (Crl-CD® (SC) BR; male / female) Route of exposure: Inhalation (vapors) Results: Negative, NOAEC (fertility) = 500 ppm PROPANE

Method: OECD 413 Reliability: 1 Species: Rat (Sprague-Dawley CD; male / female) Route of exposure: Inhalation Results: NOAEC (fertility) 10 000 ppm

ZINC CHROME SPRAY

Revision nr. 2 Dated 28/02/2020 Printed on 28/02/2020 Page n. 17/25

Replaced revision:1 (Dated: 25/02/2019)

HYDROCARBONS, C6, ISOALKANS, <5% N-HEXANE

Method: OECD TG 413 Reliability: 1 Species: Rat (Fischer 344; male / female) Route of exposure: Inhalation (vapors) Results: Negative. NOAEC (fertility) ≥ 400 ppm

HYDROCARBONS C4

Method: OECD 422 Reliability: 1 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Inhalation (gas) Results: Negative, NOAEC (fertility) = 16000 ppm

HYDROCARBONS, C14-C18, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

Method: OECD 416 Reliability: 1 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Oral Results: Negative, NOAEL (fertility)> = 750 mg / kg bw / day

Adverse effects on development of the offspring XYLENE (MIXTURE OF ISOMERS)

Method: Equivalent or similar to OECD 414 Reliability: 2 Species: Rat (Sprague-Dawley) Route of exposure: Inhalation (vapors) Results: Negative (development)

PROPANE

Method: EPA OPPTS 870.3700 Reliability: 1 Species: Rat (VAF / Plus®, Sprague-Dawley Derived (CD®) Crl: CD® IGS BR) Route of exposure: Inhalation (gas) Results: NOAEC (development) 10 426 ppm

HYDROCARBONS, C6, ISOALKANS, <5% N-HEXANE

Method: Guidelines for Reproduction Studies for Safety and Evaluation of Drugs for Human Use, Segment II (Teratology Study) Reliability: 1 Species: Rat (Sprague-Dawley) Route of exposure: Inhalation (vapors) Results: Negative. NOAEC (development)> = 300 ppm

HYDROCARBONS C4

Method: OECD 414 Reliability: 1 Species: Rat (Sprague-Dawley) Route of exposure: Inhalation (gas) Results: Negative, NOAEC (development) = 10426 ppm

HYDROCARBONS, C14-C18, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

ZINC CHROME SPRAY

Revision nr. 2 Dated 28/02/2020 Printed on 28/02/2020 Page n. 18/25 Replaced revision:1 (Dated: 25/02/2019)

Method: OECD 414 Reliability: 2 Species: Rat (Crj: CD (SD)) Route of exposure: Oral Results: Negative, NOAEL (development)> 1000 mg / kg bw / day

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

XYLENE (MIXTURE OF ISOMERS)

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

PROPANE

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

HYDROCARBONS, C6, ISOALKANS, <5% N-HEXANE

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

HYDROCARBONS C4

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

ALUMINIUM POWDER (STABILIZED)

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

HYDROCARBONS, C14-C18, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

Based on available data and through expert judgment, the substance is not classified in the single exposure berdaglio organ toxicity class.

ETHYL ACETATE

Based on available data and through expert judgment, the substance is classified in the target organ toxicity class for single exposure.

Target organ ETHYL ACETATE

Central nervous system

Route of exposure ETHYL ACETATE

Inhalation

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

XYLENE (MIXTURE OF ISOMERS)

ZINC CHROME SPRAY

Revision nr. 2 Dated 28/02/2020 Printed on 28/02/2020 Page n. 19/25 Replaced revision:1 (Dated: 25/02/2019)

Method: Equivalent or similar to OECD 408 Reliability: 2 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Oral Results: Negative

PROPANE

Method: OECD 422 Reliability: 1 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Inhalation (gas) Results: NOAEC 16 000 ppm

HYDROCARBONS, C6, ISOALKANS, <5% N-HEXANE

Method: Equivalent or similar to OECD 422 Reliability: 1 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Oral Results: Negative. NOAEL> = 1000 mg / kg / day Method: Equivalent or similar to OECD 413 Reliability: 1 Species: Rat (albino; male / female) Route of exposure: Inhalation (vapors) Results: Negative. NOAEC = 10186 mg / m3

HYDROCARBONS C4

Method: OECD 413 Reliability: 1 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Inhalation (gas) Results: Negative, NOAEC = 10000 ppm

ALUMINIUM POWDER (STABILIZED)

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for prolonged or repeated exposure.

HYDROCARBONS, C14-C18, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

Method: Equivalent or similar to OECD 408 Reliability: 1 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Oral Results: Negative, NOAEL> = 5000 mg / kg bw / day Method: OECD 413 Reliability: 1 Species: Rat (Wistar; male / female) Route of exposure: Inhalation (vapors) Results: Negative, NOAEC = 30 mg / L air Method: Equivalent or similar to OECD 411 Reliability: 1 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Dermal Results: Negative, NOAEL> 495 mg / kg bw / day

ETHYL ACETATE

Method: Equivalent or similar to EPA OTS 795.2600

ZINC CHROME SPRAY

Revision nr. 2 Dated 28/02/2020 Printed on 28/02/2020 Page n. 20/25 Replaced revision:1 (Dated: 25/02/2019)

Reliability: 2 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Oral Results: NOAEL 900 mg / kg bw / day Method: EPA OTS 798.2450 Reliability: 1 Species: Rat (Crl: CD®BR; male / female) Route of exposure: Inhalation Results: LOEC 350 ppm

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment. **12.1. Toxicity**

XYLENE (MIXTURE OF ISOMERS)	
LC50 - for Fish	2,6 mg/l/96h
EC50 - for Crustacea	1 mg/l/48h
EC50 - for Algae / Aquatic Plants	1,3 mg/l/72h
EC10 for Algae / Aquatic Plants	0,44 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	0,44 mg/l

12.2. Persistence and degradability

XYLENE (MIXTURE OF ISOMERS) Rapidly degradable in water, 98% in 28 days HYDROCARBONS, C6, ISOALKANS, <5% N-HEXANE Rapidly degradable in water, 80% in 28 days. HYDROCARBONS, C14-C18, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS Easily degradable in water, 74% in 28 days. ETHYL ACETATE Rapidly degradable, 60% in 10 days.

ETHYL ACETATE Solubility in water > 10000 mg/l Rapidly degradable ALUMINIUM POWDER (STABILIZED) Solubility in water 0 mg/l Degradability: information not available XYLENE (MIXTURE OF ISOMERS) Solubility in water 100 - 1000 mg/l Degradability: information not available

Meccanocar Italia S.r.I.	Revision nr. 2
	Dated 28/02/2020
ZINC CHROME SPRAY	Printed on 28/02/2020
	Page n. 21/25
	Replaced revision:1 (Dated: 25/02/2019)

PROPANE	
Solubility in water	0,1 - 100 mg/l
Rapidly degradable	
12.3. Bioaccumulative potential	
ETHYL ACETATE	
Partition coefficient: n-octanol/water	0,68
BCF	30
XYLENE (MIXTURE OF ISOMERS)	
Partition coefficient: n-octanol/water	3,12
BCF	25,9
PROPANE	
Partition coefficient: n-octanol/water	1,09
12.4. Mobility in soil	
XYLENE (MIXTURE OF ISOMERS)	
Partition coefficient: soil/water	2,73
12.5. Results of PBT and vPvB assessment	

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

HYDROCARBONS, C6, ISOALKANS, <5% N-HEXANE

Empty Container Warning Empty Container Warning (where applicable): Empty containers may contain debris and may be hazardous. Do not attempt to fill or clean containers without proper instructions. Empty drums must be completely drained and stored safely until they are properly reconditioned or disposed of. Empty containers must be recycled, recovered or disposed of through an appropriately qualified or authorized contractor and in accordance with government regulations. DO NOT PRESSURIZE, CUT, WELD, BRAZE, WELD, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY OR OTHER IGNITION SOURCES. MAY EXPLODE AND CAUSE INJURY OR DEATH.

HYDROCARBONS C4

- Comply with applicable local, state or international regulations regarding the disposal of solid or hazardous waste and / or disposal of containers.
- Contaminated product, soil, water, container residues and spill cleaning materials can be hazardous waste.
- The contaminated product, soil or water must be considered dangerous due to the potential evolution of flammable vapor.

ZINC CHROME SPRAY

Revision nr. 2

Dated 28/02/2020 Printed on 28/02/2020

Page n. 22/25

Replaced revision:1 (Dated: 25/02/2019)

- Follow appropriate grounding procedures to avoid static electricity.

- The product must not be allowed to enter drains, water courses or the soil.

ETHYL ACETATE

Dispose of as hazardous waste. Recover or recycle if possible. Otherwise incineration. Dispose according to local regulations.

Disposal of the container: empty the container completely. Empty containers may contain highly flammable residues. Do not cut, grind, puncture, weld or dispose of containers unless adequate precautions have been taken against this hazard. Do not remove the container labels until they are cleaned. Send to drum recovery or metal recovery.

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG, 1950 IATA:

14.2. UN proper shipping name

ADR / RID:	AEROSOLS
IMDG:	AEROSOLS
IATA:	AEROSOLS, FLAMMABLE

14.3. Transport hazard class(es)

ADR / RID:	Class: 2	Label: 2.1
IMDG:	Class: 2	Label: 2.1
IATA:	Class: 2	Label: 2.1



14.4. Packing group

ADR / RID, IMDG, IATA:

14.5. Environmental hazards

ADR / RID:	NO
IMDG:	NO
IATA:	NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: Special Provision: -	Limited Quantities: 1 L	Tunnel restriction code: (D)
IMDG:	EMS: F-D, S-U	Limited Quantities: 1 L	

	Meccanocar Italia S.r.I.		Revision nr. 2
			Dated 28/02/2020
	ZINC CHROME SPRAY		Printed on 28/02/2020
			Page n. 23/25
			Replaced revision:1 (Dated: 25/02/2019)
ΙΑΤΑ:	Cargo:	Maximum quantity: 150	Packaging instructions:
	Pass.:	Kg Maximum quantity: 75	203 Packaging instructions:
	Special Instructions:	Kg A145, A167, A802	203
14.7. Transport in bulk according to	Annex II of Marpol and the IBC Code		
Information not relevant			
SECTION 15. Regulatory	information		
15.1. Safety, health and environme	ntal regulations/legislation specific for the	substance or mixture	
Seveso Category - Directive 2012/18/E	:C: P3a		
Restrictions relating to the product or c	ontained substances pursuant to Annex XVII to	EC Regulation 1907/2006	
Product Point	40		
Substances in Candidate List (Art. 59 F	REACH)		
On the basis of available data, the proc	duct does not contain any SVHC in percentage	greater than 0,1%.	
Substances subject to authorisation (A	nnex XIV REACH)		
None			
Substances subject to exportation repo	rting pursuant to (EC) Reg. 649/2012:		
None			
Substances subject to the Rotterdam C	Convention:		
None			
Substances subject to the Stockholm C	Convention:		
None			
Healthcare controls			
Workers exposed to this chemical age workers' health and safety are modest	nt must not undergo health checks, provided th and that the 98/24/EC directive is respected.	nat available risk-assessment o	lata prove that the risks related to the
15.2. Chemical safety assessment			
A chemical safety assessment has not	been performed for the preparation/for the sub	stances indicated in section 3.	

ZINC CHROME SPRAY

Revision nr. 2

Dated 28/02/2020 Printed on 28/02/2020

Page n. 24/25

Replaced revision:1 (Dated: 25/02/2019)

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Gas 1A	Flammable gas, category 1A
Aerosol 1	Aerosol, category 1
Aerosol 3	Aerosol, category 3
Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Flam. Sol. 1	Flammable solid, category 1
Water-react. 2	Substance or mixture which in contact with water emits flammable gas, category 2
Press. Gas (Liq.)	Liquefied gas
Press. Gas	Pressurised gas
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: may burst if heated.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H261	In contact with water releases flammable gases.
H280	Contains gas under pressure; may burst if heated.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road

CAS NUMBER: Chemical Abstract Service Number

- CE50: Effective concentration (required to induce a 50% effect)

CE NUMBER: Identifier in ESIS (European archive of existing substances)

CLP: EC Regulation 1272/2008

DNEL: Derived No Effect Level

EmS: Emergency Schedule GHS: Globally Harmonized System of classification and labeling of chemicals

IATA DGR: International Air Transport Association Dangerous Goods Regulation

IC50: Immobilization Concentration 50%

IMDG: International Maritime Code for dangerous goods

Revision nr. 2 Meccanocar Italia S.r.I. Dated 28/02/2020 Printed on 28/02/2020 ZINC CHROME SPRAY Page n. 25/25 Replaced revision:1 (Dated: 25/02/2019) IMO: International Maritime Organization INDEX NUMBER: Identifier in Annex VI of CLP LC50: Lethal Concentration 50% LD50: Lethal dose 50% OEL: Occupational Exposure Level PBT: Persistent bioaccumulative and toxic as REACH Regulation PEC: Predicted environmental Concentration PEL: Predicted exposure level PNEC: Predicted no effect concentration REACH: EC Regulation 1907/2006 RID: Regulation concerning the international transport of dangerous goods by train TI V. Threshold I imit Value TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure. TWA STEL: Short-term exposure limit TWA: Time-weighted average exposure limit VOC: Volatile organic Compounds vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation WGK: Water hazard classes (German). GENERAL BIBLIOGRAPHY 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament 4. Regulation (EU) 2015/830 of the European Parliament Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament 12. Regulation (EU) 2016/1179 (IX Atp. CLP) 13. Regulation (EU) 2017/776 (X Atp. CLP) 14. Regulation (EU) 2018/669 (XI Atp. CLP) 15. Regulation (EU) 2018/1480 (XIII Atp. CLP) 16. Regulation (EU) 2019/521 (XII Atp. CLP) - The Merck Index. - 10th Edition - Handling Chemical Safety INRS - Fiche Toxicologique (toxicological sheet) Patty - Industrial Hygiene and Toxicology N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition IFA GESTIS website ECHA website Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy Note for users: The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product. This document must not be regarded as a guarantee on any specific product property. The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products. Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12.

The data for evaluation of chemical-physical properties are reported in section 9.

Changes to previous review:

The following sections were modified: 02 / 03 / 04 / 08 / 09 / 10 / 11 / 12 / 13 / 15 / 16.