

KRAFT METAL 3IN1 METALLIZED GLOSS 512-Silver

Revision nr.5 Dated 09/06/2023 Printed on 09/06/2023 Page n. 1 / 22

Replaced revision:4 (Dated 09/06/2023)

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Code: CK322320512

Product name KRAFT METAL 3IN1 METALLIZED GLOSS 512-Silver

UFI: SA20-W0W4-500T-PR0D

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

Intended use Anticorrosive paint for metal

1.3. Details of the supplier of the safety data sheet

Name DRUCKFARBEN HELLAS SA
Full address MEGARIDOS AVENUE

District and Country 19300 ASPROPYRGOS (ATTIKI)

GREECE

Tel. +30 210 5519500 Fax +30 210 5519501

e-mail address of the competent person

responsible for the Safety Data Sheet psafety@druckfarben.gr

1.4. Emergency telephone number

For urgent inquiries refer to 0030-210-7793777

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 2020/878

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:

Flammable liquid, category 3 H226 Flammable liquid and vapour.

Aspiration hazard, category 1 H304 May be fatal if swallowed and enters airways.

Eye irritation, category 2 H319 Causes serious eye irritation.

Specific target organ toxicity - single exposure, H336 May cause drowsiness or dizziness.

category 3

Hazardous to the aquatic environment, chronic H412 Harmful to aquatic life with long lasting effects.

toxicity, category 3

2.2. Label elements

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

Hazard pictograms:







Signal words: Danger

Hazard statements:

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.



KRAFT METAL 3IN1 METALLIZED GLOSS 512-Silver

Revision nr.5 Dated 09/06/2023 Printed on 09/06/2023 Page n. 2 / 22

Replaced revision:4 (Dated 09/06/2023)

SECTION 2. Hazards identification .../>>

H319 Causes serious eye 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.
EUH208 Contains: Aminopropyltriethoxysilane

Contains: Aminopropyltriethoxysilane May produce an allergic reaction.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P331 Do NOT induce vomiting.

P280 Wear protective gloves/ protective clothing / eye protection / face protection.
P301+P310 IF SWALLOWED: immediately call a POISON CENTER or a doctor

P370+P378 In case of fire: use alcohol resistant foam to extinguish.

P501 Dispose of contents / container to an approved waste disposal plant or recycled in accordance with local /

national / international regulations.

P102 Keep out of reach of children.

P271 Use only outdoors or in a well-ventilated area.

Contains: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

1-Methoxy 2-Propanol

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

INDEX 649-327-00-6 20 ≤ x < 30 Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, EUH066, Classification

note according to Annex VI to the CLP Regulation: P

EC 919-857-5 CAS 64742-48-9 REACH Reg. 01-21119463258-33

 $Hydrocarbons, \, C9\text{-}C11, \, n\text{-}alkanes, \, isoalkanes, \, cyclics, \, <\!2\% \, \, aromatics$

INDEX 649-327-00-6 1 ≤ x < 5 Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, EUH066, Classification

note according to Annex VI to the CLP Regulation: P

EC 919-857-5 CAS 64742-48-9

REACH Reg. 01-2119463258-33-xxxx

1-Methoxy 2-Propanol

INDEX 603-064-00-3 1 ≤ x < 5 Flam. Liq. 3 H226, STOT SE 3 H336

EC 203-539-1 CAS 107-98-2

REACH Reg. 01-2119457435-35-00XX

202-422-2

Xylene (ortho-)

FC

INDEX 601-022-00-9 1 ≤ x < 5 Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315,

Classification note according to Annex VI to the CLP Regulation: C

LD50 Dermal: >1700 mg/kg, STA Inhalation vapours: 11 mg/l

CAS 95-47-6 REACH Reg. 01-2119488216 Aluminium Powder (Stabilized)

INDEX 013-002-00-1 $1 \le x < 5$ Flam. Sol. 1 H228, Classification note according to Annex VI to the CLP

Regulation: T

EC 231-072-3 CAS 7429-90-5

REACH Reg. 01-21194557273-39 01-2119529243-45



KRAFT METAL 3IN1 METALLIZED GLOSS 512-Silver

Revision nr.5 Dated 09/06/2023 Printed on 09/06/2023

Replaced revision:4 (Dated 09/06/2023)

SECTION 3. Composition/information on ingredients/>>

Calcium Neodecanoate

INDEX 1 ≤ x < 3 Eye Dam. 1 H318, Skin Irrit. 2 H315

248-375-1 EC CAS 27253-33-4

REACH Reg. 01-2120769660-48-XXXX

Ethylene Glycol Monobutyl Ether

INDEX 603-014-00-0 Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319, $0.5 \le x < 1$

Skin Irrit, 2 H315

EC 203-905-0 LD50 Oral: 1200 mg/kg, STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11

Flam. Liq. 3 H226, STOT SE 3 H336

mg/l

CAS 111-76-2

REACH Reg. 01-2119475108-36 2-Methoxy-1-Methylethyl Acetate

INDEX 607-195-00-7 $0 \le x < 0.5$

EC 203-603-9 108-65-6 CAS

REACH Reg. 01-21194575791-29-0015

Aminopropyltriethoxysilane

INDEX 612-108-00-0 $0 \le x < 0.5$ Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1B H317 FC

213-048-4 LD50 Oral: 1490 mg/kg

CAS 919-30-2 REACH Reg. 01-2119480479-24

Amines, tallow alkyl, ethoxylated INDFX

 $0.25 \le x < 0.5$ Acute Tox. 4 H302, Skin Corr. 1C H314, Eye Dam. 1 H318, Eye Dam. 1 H318,

Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 LD50 Oral: <2000 mg/kg

FC 500-153-8 CAS 61791-26-2

Xylene (mixture of isomers)

INDEX 601-022-00-9 $0 \le x < 0.5$ Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304,

STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Classification note according to Annex VI to the CLP Regulation: C

215-535-7 LD50 Dermal: >1700 mg/kg, STA Inhalation vapours: 11 mg/l

CAS 1330-20-7

REACH Reg. 01-2119488216-32

Xvlene

EC

INDEX 601-022-00-9 $0 \le x < 0.5$ Flam. Lig. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304,

> STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Chronic 3 H412, Classification note according to Annex VI to the

Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

CLP Regulation: C

FC 215-535-7 STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mg/l

CAS 1330-20-7 REACH Reg. 01-2119488216-32 **BTC Methoxy Propyl Acetate (MPA)**

INDEX 607-195-00-7 $0 \le x < 0.5$ Flam. Liq. 3 H226, STOT SE 3 H336

EC 203-603-9 CAS 108-65-6

REACH Reg. 01-2119475791-29-00XX

Acetone

INDEX 606-001-00-8 $0 \le x < 0.5$ Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

200-662-2 EC 67-64-1 CAS

REACH Reg. 01-2119471330-49-0003

BASF n-Butyl Acetate

INDEX 607-025-00-1 $0 \le x < 0,5$ Flam. Liq. 3 H226, STOT SE 3 H336

EC 204-658-1 CAS 123-86-4

REACH Reg. 01-2119485493-29-0XXX

2,6-di-tert-butyl-p-cresol

INDEX $0 \le x < 0.25$

EC 204-881-4 128-37-0 CAS REACH Reg. 01-2119565113-46 2-(2-BUTOXYETHOXY)ETHANOL

INDEX 603-096-00-8 $0 \le x < 0.5$ Eye Irrit. 2 H319

EC 203-961-6 CAS 112-34-5

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



KRAFT METAL 3IN1 METALLIZED GLOSS 512-Silver

Revision nr.5 Dated 09/06/2023 Printed on 09/06/2023 Page n. 4 / 22

Replaced revision:4 (Dated 09/06/2023)

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. 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. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

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

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.



KRAFT METAL 3IN1 METALLIZED GLOSS 512-Silver

Revision nr.5 Dated 09/06/2023 Printed on 09/06/2023 Page n. 5 / 22

Replaced revision:4 (Dated 09/06/2023)

SECTION 6. Accidental release measures .../>>

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

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ,
	·	СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17
		Януари 2020г.)
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und
DEO	Beatsomana	Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung
		gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
		, o
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των
		οδηγιών 2017/2398/EE, 2019/130/EE και 2019/983/EE «για την τροποποίηση της οδηγίας
		2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με
		την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία"»
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru
		modificarea și completarea hotărârii guvernului nr. 1.093/2006
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU)
EU	OEL EU	
		2019/983; 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 98/24/EC; Directive
		91/322/EEC.
	TLV-ACGIH	ACGIH 2022
	ILV AUGIT	7100111 2022

			Aminoprop	pyltriethoxysilar	ne e			
Predicted no-effect co	ncentration	- PNEC						
Normal value in fresh	n water					0,33	mg/l	
Normal value in mari	ne water	0,033	mg/l					
Normal value for fres	h water sed	iment				0,26	mg/kg/d	
Health - Derived no-eff	ect level - D	ONEL / DMEL						
	Effects of	kers						
Route of exposure	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	local	systemic	local	systemic		systemic	local	systemic
Oral	VND	5	VND	5				
		mg/kg bw/d		mg/kg bw/d				
Inhalation	VND	17,4	VND	17	VND	59	VND	59
		mg/m3		mg/m3		mg/m3		mg/m3
Skin	VND	5	VND	5	VND	8,3	VND	8,3
		mg/kg bw/d		mg/kg bw/d		mg/kg		mg/kg
						bw/d		bw/d



KRAFT METAL 3IN1 METALLIZED GLOSS 512-Silver

Revision nr.5 Dated 09/06/2023 Printed on 09/06/2023 Page n. 6 / 22 Replaced revision:4 (Dated 09/06/2023)

SECTION 8. Exposure controls/personal protection/>>

				2,6-di-tert-	butyl-p-creso	ol					
Threshold Limit Value)										
Туре Со	ountry	ıntry TWA/8h STEL/15min		Remarks / Ob	servations						
		mg/m3	ppm	mg/m3	ppm						
OEL EU	J	10									
Predicted no-effect concentration - PNEC											
Normal value in fresh water 0,0002 mg/l											
Normal value in marine water 0,00002 mg/l											
Health - Derived no-effect level - DNEL / DMEL											
	Effects	on consu	mers			Effects on workers					
Route of exposure	Acute	Acu	te	Chronic	Chronic	Acute local	Acute	Chronic	Chronic		
	local	syst	emic	local	systemic		systemic	local	systemic		
Inhalation								VND	3,5		
									mg/kg		
Skin								VND	0,5		
									mg/kg		
									bw/d		

	Aluminium Powder (Stabilized)											
Threshold Limit Value												
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations						
		mg/m3	ppm	mg/m3	ppm							
TLV	BGR	2										
MAK	DEU	4				INHAL						
MAK	DEU	1,5				RESP						
TLV	GRC	10										
WEL	GBR	10				INHAL						
WEL	GBR	4				RESP						
TLV-ACGIH		1	0,9			RESP AI						

				Х	(ylene							
Threshold Limit Value												
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations						
		mg/m3	ppm	mg/m3	ppm							
TLV	BGR	221	50	442	100	SKIN						
AGW	DEU	440	100	880	200	SKIN						
MAK	DEU	440	100	880	200	SKIN						
TLV	GRC	435	100	650	150							
VLEP	ITA	221	50	442	100	SKIN						
TLV	ROU	221	50	442	100	SKIN						
WEL	GBR	220	50	441	100	SKIN						
OEL	EU	221	50	442	100	SKIN						
TLV-ACGIH		434	100	651	150							

	Acetone											
Threshold Limit Value												
Type	Country	TWA/8h		STEL/15n	nin	Remarks / Observations						
		mg/m3	ppm	mg/m3	ppm							
TLV	BGR	600		1400								
AGW	DEU	1200	500	2400 (C)	1000 (C)							
MAK	DEU	1200	500	2400	1000							
TLV	GRC	1780		3560								
VLEP	ITA	1210	500									
TLV	ROU	1210	500									
WEL	GBR	1210	500	3620	1500							
OEL	EU	1210	500									
TLV-ACGIH			250		500							



KRAFT METAL 3IN1 METALLIZED GLOSS 512-Silver

Revision nr.5 Dated 09/06/2023 Printed on 09/06/2023 Page n. 7 / 22 Replaced revision:4 (Dated 09/06/2023)

SECTION 8. Exposure controls/personal protection/>>

	Ethylene Glycol Monobutyl Ether											
Threshold Limit Value												
Type	Country	TWA/8h		STEL/15	STEL/15min		Observations					
		mg/m3	ppm	mg/m3	ppm							
TLV	BGR	98	20	246	50	SKIN						
AGW	DEU	49	10	98 (C)	20 (C)	SKIN						
MAK	DEU	49	10	98	20	SKIN	Hinweis					
TLV	GRC	120	25									
VLEP	ITA	98	20	246	50	SKIN						
TLV	ROU	98	20	246	50	SKIN						
WEL	GBR	123	25	246	50	SKIN						
OEL	EU	98	20	246	50	SKIN						
TLV-ACGIH		97	20									

	2-Methoxy-1-Methylethyl Acetate												
Threshold Limi	Threshold Limit Value												
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations							
		mg/m3	ppm	mg/m3	ppm								
TLV	BGR	275	50	550	100	SKIN							
AGW	DEU	270	50	270	50								
MAK	DEU	270	50	270	50								
TLV	GRC	275	50	550	100								
VLEP	ITA	275	50	550	100	SKIN							
TLV	ROU	275	50	550	100	SKIN							
WEL	GBR	274	50	548	100	SKIN							
OEL	EU	275	50	550	100	SKIN							

		Hydr	ocarb	ons, C9	9-C11, n-alkanes	, isoalkanes,	, cyclics, <2% arc	matics		
Threshold Lim	it Value									
Туре	Countr	y TWA	TWA/8h STEL/15min			min	Remarks / Ol	oservations		
		mg/m	13	ppm	mg/m3	ppm				
TLV	GRC	1200			-					
Health - Derive	ed no-effect	level - DNE	EL / DI	MEL						
	E	Effects on c	onsum	ners			Effects on workers			
Route of exp	oosure A	Acute	ute Acute		Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	le	ocal	syste	mic	local	systemic		systemic	local	systemic
Oral					VND	300		-		
						mg/kg/d				
Inhalation					VND	900	VND	1500		
						mg/m3		mg/m3		
Skin					VND	300			VND	300
						mg/kg/d				mg/kg/d



KRAFT METAL 3IN1 METALLIZED GLOSS 512-Silver

Revision nr.5 Dated 09/06/2023 Printed on 09/06/2023 Page n. 8 / 22 Replaced revision:4 (Dated 09/06/2023)

SECTION 8. Exposure controls/personal protection .../>>

				Xyler	e (ortho-)						
Threshold Limit V	alue				,						
Type	Country	TWA/8	h	STEL/15	min	Remarks / Ob	servations				
	-	mg/m3	ppm	mg/m3	ppm						
MAK	DEU		100		200						
TLV	GRC	435	100	650	150						
WEL	GBR		50		100						
OEL	EU	221	50	442	100						
TLV-ACGIH 100 150											
redicted no-effect concentration - PNEC											
Normal value in fresh water 0,327 mg/l											
Normal value in	marine water	er					0,327	mg/l			
Normal value for	r fresh water	r sedimen	t				12,46	mg/kg			
Normal value for	r marine wat	ter sedime	ent				12,46	mg/kg			
Health - Derived n	o-effect lev	el - DNEL	/ DMEL								
	Effe	cts on cor	nsumers			Effects on workers					
Route of exposu	ire Acu	te A	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic		
	loca	l s	systemic	local	systemic		systemic	local	systemic		
Oral				VND	1,6						
					mg/kg/d						
Inhalation	174	1	174	VND	14,8	289	289	VND	77		
	mg/	m3 r	ng/m3		mg/m3	mg/m3	mg/m3		mg/m3		
Skin				VND	108			VND	180		
					mg/kg/d				mg/kg/d		

				Xylene (mix	ture of isome	rs)			
Threshold Limit Va	lue								
Туре	Country	TWA/8h	1	STEL/15	min	Remarks / Ob:	Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm				
MAK	DEU		100		200				
TLV	GRC	435	100	650	150				
WEL	GBR		50		100				
OEL	EU	221	50	442	100				
TLV-ACGIH			100		150				
Predicted no-effect	t concentra	ation - PNI	EC						
Normal value in f	resh water						0,327	mg/l	
Normal value in r	marine wate	er					0,327	mg/l	
Normal value for	fresh wate	r sediment					12,46	mg/kg	
Normal value for	marine wa	er sedime	nt				12,46	mg/kg	
Health - Derived no	effect lev	el - DNEL	/ DMEL						
	Effe	cts on con	sumers		Effects on workers				
Route of exposur	re Acu	te A	cute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	loca	l sy	ystemic	local	systemic		systemic	local	systemic
Oral				VND	1,6				
					mg/kg/d				
Inhalation	174	17	74	VND	14,8	289	289	VND	77
	mg/	m3 m	ng/m3		mg/m3	mg/m3	mg/m3		mg/m3
Skin				VND	108			VND	180
					mg/kg/d				mg/kg/d



KRAFT METAL 3IN1 METALLIZED GLOSS 512-Silver

Revision nr.5 Dated 09/06/2023 Printed on 09/06/2023 Page n. 9 / 22 Replaced revision:4 (Dated 09/06/2023)

				1-Methox	y 2-Propano	l			
Threshold Limit V	alue				•				
Туре	Country	TWA/8h		STEL/15	min	Remarks / Ol	servations		
		mg/m3	ppm	mg/m3	ppm				
MAK	DEU		100		200				
TLV	GRC	360	100	1080	300				
WEL	GBR		100		150				
OEL	EU	375	100	568	150				
TLV-ACGIH			100		150				
Predicted no-effect	ct concentra	ation - PNE	C						
Normal value in	Normal value in fresh water						10	mg/l	
Normal value in	Normal value in marine water						1	mg/l	
Normal value fo	r fresh wate	r sediment					41,6	mg/kg	
Normal value fo	r marine wa	ter sedimer	nt				4,17	mg/kg	
Normal value fo	r water, inte	rmittent rele	ease				100	mg/l	
Health - Derived n	o-effect lev	el - DNEL /	DMEL						
	Effe	cts on cons	umers			Effects on worl	cers		
Route of exposu	ıre Acu	te Ac	ute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	loca	ıl sy	stemic	local	systemic		systemic	local	systemic
Oral				VND	3,3				
					mg/kg				
Inhalation				VND	43,9	553,5	VND	VND	369
					mg/m3	mg/m3			mg/m3
Skin				VND	18,1			VND	50,6
					mg/kg				mg/kg

				BASF n-	Butyl Acetate				
hreshold Limit Va	alue				•				
Туре	Country	TWA/8h		STEL/15	STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	275	50	550	100	SKIN			
AGW	DEU	270	50	270	50				
MAK	DEU	270	50	270	50				
TLV	GRC	275	50	550	100				
VLEP	ITA	275	50	550	100	SKIN			
TLV	ROU	275	50	550	100	SKIN			
WEL	GBR	274	50	548	100	SKIN			
OEL	EU	275	50	550	100	SKIN			
Predicted no-effec	t concentr	ation - PNE	С						
Normal value in	fresh water	•					0,635	mg/l	
Normal value in	marine wat	er					0,0635	ml/l	
Normal value for	fresh water	er sediment					3,29	mg/kg	
Normal value for	marine wa	iter sedimen	t				0,329	mg/kg	
Normal value for	water, inte	rmittent rele	ase				6,35	mg/l	
Normal value of	STP micro	organisms					100	mg/l	
Health - Derived no	o-effect lev	el - DNEL /	DMEL						
	Effe	ects on cons	umers			Effects on world	kers		
Route of exposu	re Acu	ıte Ac	ute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	loca	al sys	stemic	local	systemic		systemic	local	systemic
Oral				VND	1,67				
					mg/kg				
Inhalation				VND	33	553,5	VND	VND	275
					mg/m3	mg/m3			mg/m3
Skin				VND	54,8			VND	153,5
					mg/kg				mg/kg



KRAFT METAL 3IN1 METALLIZED GLOSS 512-Silver

Revision nr.5 Dated 09/06/2023 Printed on 09/06/2023 Page n. 10 / 22 Replaced revision:4 (Dated 09/06/2023)

SECTION 8. Exposure controls/personal protection .../>>

			В	TC Methoxy P	ropyl Acetate	(MPA)			
Threshold Limit	Value			-		,			
Type	Country	TWA/8h		STEL/15min		Remarks / O	bservations		
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	275	50	550	100	SKIN			
AGW	DEU	270	50	270	50				
MAK	DEU	270	50	270	50				
TLV	GRC	275	50	550	100				
VLEP	ITA	275	50	550	100	SKIN			
TLV	ROU	275	50	550	100	SKIN			
WEL	GBR	274	50	548	100	SKIN			
OEL	EU	275	50	550	100	SKIN			
Predicted no-effe	ect concentra	ation - PNE	С						
Normal value i	n fresh water						0,635	mg/l	
Normal value i	n marine wate	er					0,0635	ml/l	
Normal value f	for fresh wate	r sediment					3,29	mg/kg	
Normal value f	for marine wa	ter sedimen	t				0,329	mg/kg	
Normal value f	for water, inte	rmittent rele	ase				6,35	mg/l	
Normal value of	of STP micro	organisms					100	mg/l	
Health - Derived	no-effect lev	el - DNEL /	DMEL						
	Effe	cts on consu	umers			Effects on wor	kers		
Route of expos	sure Acu	te Acı	ute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	loca	ıl sys	temic	local	systemic		systemic	local	systemic
Oral				VND	1,67 mg/kg				
Inhalation				VND	33 mg/m3	553,5 mg/m3	VND	VND	275 mg/m3
Skin				VND	54,8 mg/kg	<u> </u>		VND	153,5 mg/kg

	2-(2-BUTOXYETHOXY)ETHANOL								
Threshold Limit Value									
Type	Country	TWA/8h		STEL/15m	nin	Remarks / Observation	S		
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	67,5	10	101,2	15				
AGW	DEU	67	10	100,5 (C)	15 (C)	Hinwei	S		
MAK	DEU	67	10	100,5	15	Hinwei	S		
TLV	GRC	67,5	10	101,2	15				
VLEP	ITA	67,5	10	101,2	15				
TLV	ROU	67,5	10	101,2	15				
WEL	GBR	67,5	10	101,2	15				
OEL	EU	67,5	10	101,2	15				
TLV-ACGIH		66	10			INHAL			

		Hydroca	rbons, C9	-C11, n-alkanes	, isoalkanes,	, cyclics, <2% arc	matics		
Threshold Lim	nit Value								
Type	Country	TWA/8h	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	GRC	1200							
Health - Derive	ed no-effect le	vel - DNEL /	DMEL						
	Eff	ects on cons	umers			Effects on worl	kers		
Route of exp	posure Ac	ute Ac	ute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	loc	al sys	stemic	local	systemic		systemic	local	systemic
Oral				VND	300		-		
					mg/kg/d				
Inhalation				VND	900	VND	1500		
					mg/m3		mg/m3		
Skin				VND	300			VND	300
					mg/kg/d				mg/kg/d

(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 ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

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



KRAFT METAL 3IN1 METALLIZED GLOSS 512-Silver

Revision nr.5 Dated 09/06/2023 Printed on 09/06/2023 Page n. 11 / 22

Replaced revision:4 (Dated 09/06/2023)

SECTION 8. Exposure controls/personal protection/>>

well aired through effective local aspiration.

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

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I 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.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion. 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, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required. 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.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

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

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	value	Information
Appearance	liquid	
Colour	silver	
Odour	characteristic	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	23 ≤ T ≤ 60 °C	Concentration: 100 %
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	not available	
Kinematic viscosity	580-1240 mm2/s	Method:Converting Formula from Dynamic
		Viscosity & Density
		Temperature: 25 °C
Dynamic viscosity	70-90 KU	Method:ASTM D 562-05
		Temperature: 25 °C
Solubility	not available	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	0,93-0,99 g/cm3	Method:ISO 2811
		Temperature: 25 °C
Relative vapour density	not available	
Particle characteristics	not applicable	

Information

9.2. Other information

9.2.1. Information with regard to physical hazard classes



KRAFT METAL 3IN1 METALLIZED GLOSS 512-Silver

Revision nr.5 Dated 09/06/2023 Printed on 09/06/2023 Page n. 12 / 22

Replaced revision:4 (Dated 09/06/2023)

SECTION 9. Physical and chemical properties/>>

Information not available

9.2.2. Other safety characteristics

Total solids (250°C / 482°F)

65,00 %

Method:ISO 3251 Temperature: 25 °C

SECTION 10. Stability and reactivity

10.1. Reactivity

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

Acetone

Decomposes under the effect of heat.

Ethylene Glycol Monobutyl Ether

Decomposes under the effect of heat.

2-Methoxy-1-Methylethyl Acetate

Stable in normal conditions of use and storage.

With the air it may slowly develop peroxides that explode with an increase in temperature.

1-Methoxy 2-Propanol

1-METHOXY-2-PROPANOL: absorbs and disolves in water and in organic solvents, dissolves various plastic materials; it is stable but with air it may slowly form explosive peroxides.

BASF n-Butvl Acetate

Stable in normal conditions of use and storage.

With the air it may slowly develop peroxides that explode with an increase in temperature.

BTC Methoxy Propyl Acetate (MPA)

Stable in normal conditions of use and storage.

With the air it may slowly develop peroxides that explode with an increase in temperature.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

Xylene

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

Acetone

Risk of explosion on contact with: bromine trifluoride,fluorine dioxide,hydrogen peroxide,nitrosyl chloride,2-methyl-1,3

 $but a diene, nitromethane, nitrosyl\ perchlorate. May\ react\ dangerously\ with:\ potassium\ tert-but oxide, alkaline$

hydroxides,bromine,bromoform,isoprene,sodium,sulphur dioxide,chromium trioxide,chromyl chloride,nitric

acid,chloroform,peroxymonosulphuric acid,phosphoryl oxychloride,chromosulphuric acid,fluorine,strong oxidising agents,strong reducing agents.Develops flammable gas on contact with: nitrosyl perchlorate.

Ethylene Glycol Monobutyl Ether

May react dangerously with: aluminium,oxidising agents. Forms peroxides with: air.

2-Methoxy-1-Methylethyl Acetate

May react violently with: oxidising substances, strong acids, alkaline metals.

Xylene (ortho-

XYLENE (MIXTURE OF ISOMERS): stable, but may develop violent reactions in the presence of strong oxidising agents such as sulphuric and nitric acids and perchlorates. May form explosive mixtures with the air.

Xylene (mixture of isomers)

XYLENE (MIXTURE OF ISOMERS): stable, but may develop violent reactions in the presence of strong oxidising agents such as sulphuric and nitric acids and perchlorates. May form explosive mixtures with the air.

1-Methoxy 2-Propanol

1-METHOXY-2-PROPANOL: can react dangerously with strong oxidising agents and strong acids.

BASF n-Butyl Acetate

May react violently with: oxidising substances, strong acids, alkaline metals.

BTC Methoxy Propyl Acetate (MPA)

May react violently with: oxidising substances, strong acids, alkaline metals.

2-(2-BUTOXYETHOXY)ETHANOL



KRAFT METAL 3IN1 METALLIZED GLOSS 512-Silver

Revision nr.5 Dated 09/06/2023 Printed on 09/06/2023 Page n. 13 / 22

Replaced revision:4 (Dated 09/06/2023)

SECTION 10. Stability and reactivity .../>>

May react with: oxidising substances.May form peroxides with: oxygen.Develops hydrogen on contact with: aluminium.May form explosive mixtures with: air.

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

Acetone

Avoid exposure to: sources of heat,naked flames.

Ethylene Glycol Monobutyl Ether

Avoid exposure to: sources of heat,naked flames.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Avoid exposure to: heat.

Keep away from: oxidising agents.

1-Methoxy 2-Propanol

1-METHOXY-2-PROPANOL: avoid exposure to the air.

2-(2-BUTOXYETHOXY)ETHANOL

Avoid exposure to: air.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Avoid exposure to: heat.

Keep away from: oxidising agents.

10.5. Incompatible materials

Acetone

Incompatible with: acids,oxidising substances.

2-Methoxy-1-Methylethyl Acetate

Incompatible with: oxidising substances, strong acids, alkaline metals.

1-Methoxy 2-Propanol

1-METHOXY-2-PROPANOL: oxidising agents, strong acids and alkaline metals.

BASF n-Butyl Acetate

Incompatible with: oxidising substances, strong acids, alkaline metals.

BTC Methoxy Propyl Acetate (MPA)

Incompatible with: oxidising substances, strong acids, alkaline metals.

2-(2-BUTOXYETHOXY)ETHANOL

Incompatible with: oxidising substances, strong acids, alkaline metals.

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

Acetone

May develop: ketenes,irritant substances.

Ethylene Glycol Monobutyl Ether May develop: hydrogen. 2-(2-BUTOXYETHOXY)ETHANOL May develop: hydrogen.

SECTION 11. Toxicological information

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

Xvlene (ortho-)

XYLENE (MIXTURE OF ISOMERS): has a toxic effect on the CNS (encephalopathies). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

Xylene (mixture of isomers)

XYLENE (MIXTURE OF ISOMERS): has a toxic effect on the CNS (encephalopathies). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

1-Methoxy 2-Propanol

1-METHOXY-2-PROPANOL: the main way of entry is the skin, whereas the respiratory way is less important owing to the low vapour tension of the product. Concentrations above 100 ppm cause eye irritation, nose and oropharynx. At 1000 ppm disturbance in the equilibrium and severe eye irritation is observed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and ocular irritation on direct contact. No chronic effects have been reported in man.

Metabolism, toxicokinetics, mechanism of action and other information

2-Methoxy-1-Methylethyl Acetate

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.



KRAFT METAL 3IN1 METALLIZED GLOSS 512-Silver

Revision nr.5 Dated 09/06/2023 Printed on 09/06/2023 Page n. 14 / 22

Replaced revision:4 (Dated 09/06/2023)

SECTION 11. Toxicological information .../>>

BASF n-Butyl Acetate

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

BTC Methoxy Propyl Acetate (MPA)

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Information on likely routes of exposure

Xylene

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

2-Methoxy-1-Methylethyl Acetate

WORKERS: inhalation; contact with the skin.

BASF n-Butyl Acetate

WORKERS: inhalation; contact with the skin.

BTC Methoxy Propyl Acetate (MPA)

WORKERS: inhalation; contact with the skin.

2-(2-BUTOXYETHOXY)ETHANOL

WORKERS: inhalation; contact with the skin.

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

Xvlene

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

2-Methoxy-1-Methylethyl Acetate

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

BASF n-Butyl Acetate

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

BTC Methoxy Propyl Acetate (MPA)

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

2-(2-BUTOXYETHOXY)ETHANOL

May be absorbed by inhalation, ingestion and skin contact; is irritating for the skin and especially for the eyes. May cause damage to the spleen. At room temperature the danger of inhalation is unlikely, due to the low vapour pressure of the substance.

Interactive effects

Xylene

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

ATE (Inhalation - vapours) of the mixture: > 20 mg/l

ATE (Oral) of the mixture: Not classified (no significant component)

ATE (Dermal) of the mixture: >2000 mg/kg

Aminopropyltriethoxysilane

 LD50 (Dermal):
 4076 mg/kg rabbit

 LD50 (Oral):
 1490 mg/kg rat

ΕN



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KRAFT METAL 3IN1 METALLIZED GLOSS 512-Silver

Revision nr.5 Dated 09/06/2023 Printed on 09/06/2023 Page n. 15 / 22

Replaced revision:4 (Dated 09/06/2023)

SECTION 11. Toxicological information .../>>

Amines, tallow alkyl, ethoxylated

LD50 (Oral): < 2000 mg/kg rat

Xylene

LD50 (Dermal): 4350 mg/kg Rabbit

STA (Dermal): 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

LD50 (Oral): 3523 mg/kg Rat LC50 (Inhalation vapours): 26 mg/l/4h Rat

Ethylene Glycol Monobutyl Ether

LD50 (Oral): 1200 mg/kg Guinea pig LC50 (Inhalation vapours): 2,2 mg/l/4h Rat

2-Methoxy-1-Methylethyl Acetate

LD50 (Dermal): > 5000 mg/kg Rat LD50 (Oral): 8530 mg/kg Rat

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
LD50 (Dermal): > 5000 mg/kg Rabbit
LD50 (Oral): > 5000 mg/kg Rat
LC50 (Inhalation vapours): > 20 mg/l/4h Rat

Xylene (ortho-)

 LD50 (Dermal):
 > 1700 mg/kg Rabbit

 LD50 (Oral):
 3523 mg/kg Rat

 LC50 (Inhalation vapours):
 5000 ppm/4h Rat

STA (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

Calcium Neodecanoate

LD50 (Dermal): > 3640 mg/kg rat LD50 (Oral): 2066 mg/kg rat

Xylene (mixture of isomers)

 LD50 (Dermal):
 > 1700 mg/kg Rabbit

 LD50 (Oral):
 3523 mg/kg Rat

 LC50 (Inhalation vapours):
 5000 ppm/4h Rat

1-Methoxy 2-Propanol

 LD50 (Dermal):
 > 5000 mg/kg Rabbit

 LD50 (Oral):
 > 2000 mg/kg Rat

 LC50 (Inhalation vapours):
 54,6 mg/l/4h Rat

BASF n-Butyl Acetate

 LD50 (Dermal):
 > 5000 mg/kg Rat

 LD50 (Oral):
 8530 mg/kg Rat

 LC50 (Inhalation vapours):
 > 25.8 mg/l Rat

BTC Methoxy Propyl Acetate (MPA)

 LD50 (Dermal):
 > 5000 mg/kg Rat

 LD50 (Oral):
 8530 mg/kg Rat

 LC50 (Inhalation vapours):
 > 25,8 mg/l Rat

2-(2-BUTOXYETHOXY)ETHANOL

 LD50 (Dermal):
 2700 mg/kg Rabbit

 LD50 (Oral):
 3384 mg/kg Rat

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
LD50 (Dermal): > 5000 mg/kg Rabbit
LD50 (Oral): > 5000 mg/kg Rat
LC50 (Inhalation vapours): > 20 mg/l/4h Rat

SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation



KRAFT METAL 3IN1 METALLIZED GLOSS 512-Silver

Revision nr.5 Dated 09/06/2023 Printed on 09/06/2023 Page n. 16 / 22

Replaced revision:4 (Dated 09/06/2023)

SECTION 11. Toxicological information .../>>

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

Aminopropyltriethoxysilane

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

Xvlene

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".

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Toxic for aspiration

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

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

Aminopropyltriethoxysilane

 LC50 - for Fish
 > 934 mg/l/96h

 EC50 - for Crustacea
 331 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 > 1000 mg/l/72h

 Chronic NOEC for Fish
 1,3 mg/l

Amines, tallow alkyl, ethoxylated

LC50 - for Fish 0,13 mg/l/96h EC50 - for Crustacea 0,17 mg/l/48h

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

LC50 - for Fish > 100 mg/l/96h Fish / Aquatic Invertebrates / Algae / Microorganisms

 EC50 - for Crustacea
 > 100 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 > 100 mg/l/72h

 Chronic NOEC for Fish
 > 0,1 mg/l

 Chronic NOEC for Crustacea
 > 0,1 mg/l

Xylene (ortho-)

LC50 - for Fish > 100 mg/l/96h Microorganisms

Calcium Neodecanoate

EC50 - for Algae / Aquatic Plants > 100 mg/l/72h Chronic NOEC for Fish 0,199 mg/l



KRAFT METAL 3IN1 METALLIZED GLOSS 512-Silver

Revision nr.5 Dated 09/06/2023 Printed on 09/06/2023 Page n. 17 / 22

Replaced revision:4 (Dated 09/06/2023)

SECTION 12. Ecological information .../>>

Xylene (mixture of isomers)

LC50 - for Fish > 100 mg/l/96h Microorganisms

1-Methoxy 2-Propanol

LC50 - for Fish > 6.8 mg/l/96h

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

LC50 - for Fish > 100 mg/l/96h Fish / Aquatic Invertebrates / Algae / Microorganisms

 EC50 - for Crustacea
 > 100 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 > 100 mg/l/72h

 Chronic NOEC for Fish
 > 0,1 mg/l

 Chronic NOEC for Crustacea
 > 0,1 mg/l

12.2. Persistence and degradability

Aminopropyltriethoxysilane

Degradability: information not available

Amines, tallow alkyl, ethoxylated

Rapidly degradable

2,6-di-tert-butyl-p-cresol

Degradability: information not available

Aluminium Powder (Stabilized)

Solubility in water 0 mg/l

Degradability: information not available

Xylene

Solubility in water 100 - 1000 mg/l

Rapidly degradable

Acetone

Rapidly degradable

Ethylene Glycol Monobutyl Ether

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

2-Methoxy-1-Methylethyl Acetate

Solubility in water > 10000 mg/l

Rapidly degradable

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Rapidly degradable

Xylene (ortho-) Rapidly degradable

Calcium Neodecanoate

Degradability: information not available

Xylene (mixture of isomers)

Rapidly degradable

BASF n-Butyl Acetate

Solubility in water > 10000 mg/l

Rapidly degradable

BTC Methoxy Propyl Acetate (MPA)

Solubility in water > 10000 mg/l

Rapidly degradable

2-(2-BUTOXYETHOXY)ETHANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

@EPY 11.5.1 - SDS 1004.14



KRAFT METAL 3IN1 METALLIZED GLOSS 512-Silver

Revision nr.5 Dated 09/06/2023 Printed on 09/06/2023 Page n. 18 / 22

Replaced revision:4 (Dated 09/06/2023)

SECTION 12. Ecological information .../>>

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics Rapidly degradable

12.3. Bioaccumulative potential

2,6-di-tert-butyl-p-cresol Partition coefficient: n-octanol/water BCF	5,1 Log Kow < 1800
Xylene Partition coefficient: n-octanol/water BCF	3,12 25,9
Acetone Partition coefficient: n-octanol/water BCF	-0,23 3
Ethylene Glycol Monobutyl Ether Partition coefficient: n-octanol/water	0,81
2-Methoxy-1-Methylethyl Acetate Partition coefficient: n-octanol/water	1,2
BASF n-Butyl Acetate Partition coefficient: n-octanol/water	1,2
BTC Methoxy Propyl Acetate (MPA) Partition coefficient: n-octanol/water	1,2
2-(2-BUTOXYETHOXY)ETHANOL	

12.4. Mobility in soil

Xylene

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 ≥ than 0,1%.

12.6. Endocrine disrupting properties

Partition coefficient: n-octanol/water

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. 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.

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: 1263



KRAFT METAL 3IN1 METALLIZED GLOSS 512-Silver

Revision nr.5 Dated 09/06/2023 Printed on 09/06/2023 Page n. 19 / 22

Replaced revision:4 (Dated 09/06/2023)

SECTION 14. Transport information .../>>

14.2. UN proper shipping name

ADR / RID: PAINT OF PAINT RELATED MATERIAL IMDG: PAINT OF PAINT RELATED MATERIAL IATA: PAINT OF PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



14.4. Packing group

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 30 Limited Quantities: 5 L Tunnel restriction code: (D/E)

Special provision: 163, 367, 650

IMDG:EMS: F-E, S-ELimited Quantities: 5 LIATA:Cargo:Maximum quantity: 220 L

ATA: Cargo: Maximum quantity: 220 L Packaging instructions: 366
Passengers: Maximum quantity: 60 L Packaging instructions: 355

Special provision: A3, A72, A192

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: P5c

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

Contained substance

Point 75

$\underline{\text{Regulation (EU) } 2019/1148 \text{ - on the marketing and use of explosives precursors}}$

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

ΕN



DRUCKFARBEN HELLAS SA

KRAFT METAL 3IN1 METALLIZED GLOSS 512-Silver

Revision nr.5 Dated 09/06/2023 Printed on 09/06/2023 Page n. 20 / 22

Replaced revision:4 (Dated 09/06/2023)

SECTION 15. Regulatory information .../>>

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

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

Flam. Liq. 2 Flammable liquid, category 2
Flam. Liq. 3 Flammable liquid, category 3
Flam. Sol. 1 Flammable solid, category 1
Acute Tox. 4 Acute toxicity, category 4
Asp. Tox. 1 Aspiration hazard, category 1

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Skin Corr. 1B
Skin Corrosion, category 1B
Skin Corr. 1C
Skin corrosion, category 1C
Eye Dam. 1
Serious eye damage, category 1
Eye Irrit. 2
Skin Irrit. 2
Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1B Skin sensitization, category 1B

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.

H228 Flammable solid.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.

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

H314 Causes severe skin burns and eye damage.

H318Causes serious eye damage.H319Causes serious eye irritation.H315Causes skin irritation.

H335May cause respiratory irritation.H317May cause an allergic skin reaction.H336May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.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
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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%



KRAFT METAL 3IN1 METALLIZED GLOSS 512-Silver

Revision nr.5 Dated 09/06/2023 Printed on 09/06/2023 Page n. 21 / 22

Replaced revision:4 (Dated 09/06/2023)

SECTION 16. Other information .../>>

- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: 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: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term 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) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. 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) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII 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.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

ΕN



DRUCKFARBEN HELLAS SA

KRAFT METAL 3IN1 METALLIZED GLOSS 512-Silver

Revision nr.5 Dated 09/06/2023 Printed on 09/06/2023 Page n. 22 / 22 Replaced revision:4 (Dated 09/06/2023)

SECTION 16. Other information .../>>

Changes to previous review:

The following sections were modified: