according to Regulation (EC) No. 1907/2006



MASTERSAFE MP 16-20B

Version	Revision Date:	SDS Number:	Print Date: 03.12.2024
1.2	02.04.2024	102000036488	Date of first issue: 07.06.2023

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

1.1 Product identifier	
Trade name	: MASTERSAFE MP 16-20B
Product code	: 052435FA0

1.2 Relevant identified uses of the substance or mixture and uses advised against This information is not available.

1.3 Details of the supplier of the safety data sheet

Company	: ECKART GmbH Guentersthal 4 91235 Hartenstein
Telephone	: +499152770
Telefax	: +499152777008
E-mail address of person responsible for the SDS	: msds.eckart@altana.com

1.4 Emergency telephone number

NCEC: +44 1235 239670 (Europe) Call and response in your language is possible. Contract no.: ECKART29003-NCEC.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a dangerous substance according to GHS.

2.3 Other hazards

Combustible Solids

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

according to Regulation (EC) No. 1907/2006



MASTERSAFE MP 16-20B

Version	Revision Date:	SDS Number:	Print Date: 03.12.2024
1.2	02.04.2024	102000036488	Date of first issue: 07.06.2023

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No.	ClassificationREGUL	Concentration
	EC-No.	ATION (EC) No	(% w/w)
	Index-No.	1272/2008	
	Registration number		
aluminium powder (stabilised)	7429-90-5	Flam. Sol. 1; H228	>= 50 - <= 100
	231-072-3		
	013-002-00-1		
	01-2119529243-45		

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	Move the victim to fresh air.
		Do not leave the victim unattended.
lf inhaled	:	Remove to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	:	Wash off immediately with soap and plenty of water.
In case of eye contact	:	Remove contact lenses. If eye irritation persists, consult a specialist.
If swallowed	:	Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed None known.

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1 Extinguishing media

according to Regulation (EC) No. 1907/2006



MASTERSAFE MP 16-20B

Ver 1.2	sion	Revision Date: 02.04.2024	-	DS Number: 2000036488	Print Date: 03.12.2024 Date of first issue: 07.06.2023
	Suitabl	e extinguishing media	:	Dry sand Special powder a	gainst metal fire
	Unsuita media	able extinguishing	:	ABC powder Carbon dioxide (C Water Foam	CO2)
5.2	Special	hazards arising from	the	e substance or mi	xture
	Specif firefigh	ic hazards during ting	:	Contact with wate (hydrogen).	r liberates extremely flammable gas
5.3	Advice	for firefighters			
	•	l protective equipment fighters	:	Wear self-contain necessary.	ed breathing apparatus for firefighting if
	Further	information	:		measures that are appropriate to local d the surrounding environment.

SECTION 6: Accidental release measures

6.1		equipment and emergency procedures Use personal protective equipment. Evacuate personnel to safe areas. Avoid dust formation.
6.2	Environmental precautions	
	General advice :	The product should not be allowed to enter drains, water courses or the soil. No special environmental precautions required.
6.3	Methods and material for contair	nment and cleaning up
	Methods for cleaning up :	Use mechanical handling equipment.
		Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

according to Regulation (EC) No. 1907/2006



MASTERSAFE MP 16-20B

Version 1.2	Revision Date: 02.04.2024		OS Number: 2000036488	Print Date: 03.12.2024 Date of first issue: 07.06.2023
	rice on safe handling	:	dusts do not accu Store away from For personal prot Smoking, eating a application area.	eping should be instituted to ensure that umulate on surfaces. heat. rection see section 8. and drinking should be prohibited in the
	rice on protection against and explosion	:	is formed.	ate exhaust ventilation at places where dust
Hyg	iene measures	:	General industria	I hygiene practice.
7.2 Con	ditions for safe storage,	inc	luding any incom	patibilities
	uirements for storage as and containers	:	cool, well-ventilat - No smoking. Ke Electrical installat	container. Keep containers tightly closed in a ed place. Keep away from sources of ignition eep container closed when not in use. tions / working materials must comply with safety standards.
	her information on rage conditions	:	Protect from hum	idity and water.
Adv	vice on common storage	:	Never allow prod storage.	acids. Ether with oxidizing and self-igniting products. uct to get in contact with water during oxidizing agents and strongly acid or alkaline
			No materials to b	e especially mentioned.
	her information on age stability	:	No decompositio	n if stored and applied as directed.
7 2 6 8 8 9	sific and usa(s)			

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis	
aluminium powder (stabilised)	7429-90-5	TWA (Inhalable)	10 mg/m3	GB EH40	
		TWA (Respirable fraction)	4 mg/m3	GB EH40	
		TWA (inhalable dust)	10 mg/m3	GB EH40	
	Further information: For the purposes of these limits, respirable dust and				

according to Regulation (EC) No. 1907/2006



MASTERSAFE MP 16-20B

Version 1.2	Revision Date: 02.04.2024	SDS Number: 102000036488		nt Date: 03.12.2024 te of first issue: 07.06.2023		
	whe MD res sub cor inha any leve mus par par res dist and mat ava to t def cor sho	inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/4 General methods for sampling and gravimetric analysis or respirable, thoracic and inhalable aerosols., The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system, and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'., Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/4., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.				
		TWA (Res dust)	-	4 mg/m3	GB EH40	
	inha whe MD res sub cor inha any leve mus par par res dist and mat ava to t def cor sho	ther information: For the alable dust are those for a sampling is underta HS14/4 General methorizable, thoracic and in estance hazardous to hacentration in air equal alable dust or 4 mg.m- dust will be subject to	ractions ken in ac ods for s halable to or gre 3 8-hour COSHH coen ass ropriate of sizes. try into th pend on ctions fo base and the resp ates to th y materia have the Where r	ses of these limits, respirab of airborne dust which will b coordance with the methods ampling and gravimetric an aerosols., The COSHH def ludes dust of any kind wher ater than 10 mg.m-3 8-hou TWA of respirable dust. The if people are exposed to d igned specific WELs and es imits., Most industrial dusts The behaviour, deposition the nature and size of the p r limit-setting purposes term proximates to the fraction of mouth during breathing and iratory tract. Respirable dust al are given in MDHS14/4., ir own assigned WEL, all the people in the should be us	e collected a described in alysis or inition of a n present at a r TWA of is means that ust above these costain and fate of any m, and the body particle. HSE ned 'inhalable' of airborne is therefore st approximates he lung. Fuller Where dusts e relevant limits sure limit is listed,	

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
aluminium powder	Workers	Inhalation	Long-term systemic	3.72 mg/m3

according to Regulation (EC) No. 1907/2006



MASTERSAFE MP 16-20B

Ver 1.2	sion	Revision Date: 02.04.2024					
	(stabili	sed)	Workers	Inhalation		effects Long-term local effects	3.72 mg/m3
			Consumers	Oral		Long-term systemic effects	3.95 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
aluminium powder (stabilised)	Fresh water	0.0749 mg/l
	clarification plant	20 mg/l

8.2 Exposure controls

Personal protective equipment

Eye/face protection Hand protection Material		Safety glasses Protective gloves
Remarks	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The exact break through time can be obtained from the protective glove producer and this has to be observed.
Skin and body protection	:	Long sleeved clothing Protective suit
Respiratory protection	:	Use suitable breathing protection if workplace concentration requires. Breathing apparatus with filter. P1 filter

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

according to Regulation (EC) No. 1907/2006



MASTERSAFE MP 16-20B

Ver 1.2	sion	Revision Date: 02.04.2024		S Number: 000036488	Print Date: 03.12.2024 Date of first issue: 07.06.2023
		explosion limit / Upper ability limit	:	No data available	9
		explosion limit / Lower ability limit	:	No data available)
	Flash p	oint	:	Not applicable	
	Auto-ig	nition temperature	:	No data available)
	Decom	position temperature	:	No data available	9
	рН		:	substance/mixtu	re is non-soluble (in water)
	Viscos	ity, kinematic	:	No data available)
		ity(ies) solubility ity in other solvents	:	insoluble No data available	9
	Partitio octano	n coefficient: n-	:	No data available	9
		r pressure	:	No data available)
	Relativ	e density	:	No data available	2
	Density	/	:	2.36 g/cm3	
	Relativ	e vapour density	:	No data available	2
		e characteristics ticle Size Distribution	:	No data available	9
9.2		nformation			

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Contact with acids and alkalis may release hydrogen.

Stable under recommended storage conditions.

Dust may form explosive mixture in air.

according to Regulation (EC) No. 1907/2006



MASTERSAFE MP 16-20B

Version 1.2	Revision Date: 02.04.2024	SDS Number: 102000036488	Print Date: 03.12.2024 Date of first issue: 07.06.2023
	tions to avoid	: No data availat	
Condit		. NO Gala avallar	Jie
0.5 Incom	patible materials		
Materia	als to avoid	: Acids Bases Oxidizing agen Water	ts
	dous decomposition ation is not available.	n products	
SECTION	11: Toxicological	information	
_		-	
1.1 Inforn	nation on hazard cla	sses as defined in Re	egulation (EC) No 1272/2008
	toxicity		
	assified based on ava	ilable information.	
<u>Comp</u>	onents:		
	nium powder (stabili inhalation toxicity	ised): : LC50 (Rat): > 5 Exposure time: Test atmospher	4 h
	orrosion/irritation assified based on ava	ilable information.	
	is eye damage/eye i assified based on ava		
Respir	ratory or skin sensit	isation	
	ensitisation assified based on ava	ilable information.	
-	ratory sensitisation assified based on ava	ilable information.	
	cell mutagenicity assified based on ava	ilable information.	
	ogenicity assified based on ava	ilable information.	
Repro	ductive toxicity		

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

according to Regulation (EC) No. 1907/2006



MASTERSAFE MP 16-20B

Version Revision Date: 1.2 02.04.2024	SDS Number: 102000036488	Print Date: 03.12.2024 Date of first issue: 07.06.2023
STOT - repeated exposure Not classified based on availa	ble information.	
Aspiration toxicity Not classified based on availa	ble information.	
11.2 Information on other hazard	s	
Further information		
<u>Product:</u> Remarks	: No data avai	lable
SECTION 12: Ecological infor	mation	
12.1 Toxicity No data available		
12.2 Persistence and degradabili No data available	ity	
12.3 Bioaccumulative potential No data available		
12.4 Mobility in soil No data available		
12.5 Results of PBT and vPvB as	sessment	
<u>Product:</u> Assessment	to be either p	nce/mixture contains no components considered persistent, bioaccumulative and toxic (PBT), or ent and very bioaccumulative (vPvB) at levels of her.
12.6 Endocrine disrupting prope No data available	rties	
12.7 Other adverse effects		
Product: Additional ecological information	: No data avai	lable
SECTION 13: Disposal consid	lerations	
European Waste Catalogue		ther particulates and dust (including ball-mill dust) azardous substances
13.1 Waste treatment methods		

according to Regulation (EC) No. 1907/2006



MASTERSAFE MP 16-20B

Version	Revision Date:	SDS Number:	Print Date: 03.12.2024
1.2	02.04.2024	102000036488	Date of first issue: 07.06.2023
Contar	minated packaging		s should be taken to an approved waste recycling or disposal.

SECTION 14: Transport information

14.1 UN number or ID number					
ADR	:	Not regulated as a dangerous good			
IMDG	:	Not regulated as a dangerous good			
ΙΑΤΑ	:	Not regulated as a dangerous good			
14.2 UN proper shipping name					
ADR	:	Not regulated as a dangerous good			
IMDG	:	Not regulated as a dangerous good			
ΙΑΤΑ	:	Not regulated as a dangerous good			
14.3 Transport hazard class(es)					
ADR	:	Not regulated as a dangerous good			
IMDG	:	Not regulated as a dangerous good			
ΙΑΤΑ	:	Not regulated as a dangerous good			
14.4 Packing group					
ADR	:	Not regulated as a dangerous good			
IMDG	:	Not regulated as a dangerous good			
IATA (Cargo)	:	Not regulated as a dangerous good			
IATA (Passenger)	:	Not regulated as a dangerous good			
14.5 Environmental hazards Not regulated as a dangerous good					
14.6 Special precautions for user					
Remarks	:	Not classified as dangerous in the meaning of transport regulations.			

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

according to Regulation (EC) No. 1907/2006



MASTERSAFE MP 16-20B

Version	n Revis	ion Date:	SDS Number:	Print Da	ate: 03.12.2024
1.2	02.04	.2024	102000036488	Date of	first issue: 07.06.2023
the	e market an		nanufacture, placing or dangerous substances (VII)		Conditions of restriction for the following entries should be considered: aluminium powder (stabilised) (Number on list 40)
		andidate list of s C) for Authorisa	substances of very high tion	ı :	Not applicable
The Re	e Persisten	t Órganic Polluta	ants Regulations (retain amended for Great	ied :	Not applicable
Re	,		on substances that	:	Not applicable
Re		J) 2019/1148 or	the marketing and use	eof:	aluminium powder (stabilised)
UK			s subject to authorisatic	on :	Not applicable
Re	,		the marketing and use	e of	
su	ispicious tra	nsactions, and s	egulation (EU) 2019/11 ignificant disappearand vant national contact po	ces and	aluminium powder (stabilised) thefts (ANNEX II)

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements H228	:	Flammable solid.
Full text of other abbreviation Flam. Sol. GB EH40 GB EH40 / TWA	:	Flammable solids UK. EH40 WEL - Workplace Exposure Limits Long-term exposure limit (8-hour TWA reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and

according to Regulation (EC) No. 1907/2006



MASTERSAFE MP 16-20B

Version	Revision Date:	SDS Number:	Print Date: 03.12.2024
1.2	02.04.2024	102000036488	Date of first issue: 07.06.2023

Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GB / EN