

according to Regulation (EC) No. 1907/2006

ProFLAKE Zn 1590 MS Zinc Paste

Version	Revision Date:	SDS Number:	Print Date: 21.02.2022
2.1	19.05.2020	102000025204	Date of first issue: 28.11.2016

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

1.1 Product identifier

Trade name : ProFLAKE Zn 1590 MS Zinc Paste

Product code : 026142K30

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.co	m

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)

Short-term (acute) aquatic hazard, Category 1

H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard, Category 1 H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

Warning

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according to Regulation (EC) No. 1907/2006

ProFLAKE Zn 1590 MS Zinc Paste

Version 2.1	Revision Date: 19.05.2020	-	DS Number: 02000025204	Print Date: 21.02.2022 Date of first issue: 28.11.2016
Hazaro	d statements	:	H410	Very toxic to aquatic life with long lasting effects.
Precau	utionary statements	:	Prevention: P273 Response:	Avoid release to the environment.
			P391 Disposal:	Collect spillage.
			P501	Dispose of contents/ container to an approved waste disposal plant.

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

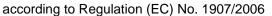
Chemical name	CAS-No. EC-No.	Classification REGULATION (EC)	Concentration (% w/w)
	Index-No.	No 1272/2008	· · · ·
	Registration number		
zinc powder — zinc dust	7440-66-6	Aquatic Acute 1;	>= 50 - <= 100
(stabilised)	231-175-3	H400	
		Aquatic Chronic 1;	
	01-2119467174-37	H410	
Naphtha (petroleum),	64742-48-9	Asp. Tox. 1; H304	>= 10 - < 20
hydrotreated heavy; Low boiling	918-481-9		
point ydrogen treated naphtha			
	01-2119457273-39		

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. Remove from exposure, lie down.
	No hazards which require special first aid measures.
If inhaled	 If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.





ProFLAKE Zn 1590 MS Zinc Paste

Version 2.1	Revision Date: 19.05.2020		DS Number: 2000025204	Print Date: 21.02.2022 Date of first issue: 28.11.2016
In cas	e of skin contact	:	Wash off immedia	ately with soap and plenty of water.
In case of eye contact :		:	Immediately flush eye(s) with plenty of water. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.	
			Remove contact Keep eye wide op	
lf swa	llowed	:	Never give anythi	tract clear. or alcoholic beverages. ing by mouth to an unconscious person. ist, 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

This information is not available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Dry sand
		Special powder against metal fire
Unsuitable extinguishing media	:	Carbon dioxide (CO2) Water
5.2 Special hazards arising from	the	e substance or mixture
Specific hazards during firefighting	:	Contact with water liberates extremely flammable gas (hydrogen).
		Do not allow run-off from fire fighting to enter drains or water courses.
5.3 Advice for firefighters		
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.



according to Regulation (EC) No. 1907/2006

ProFLAKE Zn 1590 MS Zinc Paste

Version	Revision Date:	SDS Number:	Print Date: 21.02.2022
2.1	19.05.2020	102000025204	Date of first issue: 28.11.2016

SECTION 6: Accidental release measures

	e equipment and emergency procedures Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid dust formation.
6.2 Environmental precautions	
Environmental precautions :	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
6.3 Methods and material for conta	inment and cleaning up
Methods for cleaning up :	Use mechanical handling equipment.
	Pick up and transfer to properly labelled containers. Do not flush with water. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). 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 Advice on safe handling	-	Avoid creating dust. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.
			For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.
	Advice on protection against fire and explosion	:	Keep away from heat and sources of ignition. No smoking.
			Normal measures for preventive fire protection.
	Hygiene measures	:	Wash hands before breaks and at the end of workday.



according to Regulation (EC) No. 1907/2006

ProFLAKE Zn 1590 MS Zinc Paste

Version	Revision Date:	SDS Number:	Print Date: 21.02.2022
2.1	19.05.2020	102000025204	Date of first issue: 28.11.2016

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	Earthing of containers and apparatuses is essential. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Store in original container. Keep container tightly closed in a dry and well-ventilated place. Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking.
		Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.
Further information on storage conditions	:	Protect from humidity and water.
Advice on common storage	:	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Do not store together with oxidizing and self-igniting products.
Further information on storage stability	:	No decomposition if stored and applied as directed.

7.3 Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis
Components	CA3-N0.		Control parameters	Dasis
		of exposure)		
zinc powder — zinc	7440-66-6	TWA (Inhalable)	10 mg/m3	GB EH40
dust (stabilised)			-	
Further information	The COSHH definition of a substance hazardous to health includes dust o			cludes dust of
	any kind wh	en present at a conc	entration in air equal to or gr	eater than 10
		•	e dust or 4 mg.m-3 8-hour TV	
	•		vill be subject to COSHH if p	•
			els. Some dusts have been a	
	specific WELs and exposure to these must comply with the appropriate limits., Where no specific short-term exposure limit is listed, a figure three			
		•	•	a ngure triree
	times the lor	ng-term exposure lim		
		TWA	4 mg/m3	GB EH40
		(Respirable)		
Further information	The COSHH	I definition of a subs	tance hazardous to health in	cludes dust of
	any kind wh	en present at a conc	entration in air equal to or gr	eater than 10
	ma.m-3 8-ho	our TWA of inhalable	e dust or 4 mg.m-3 8-hour TV	VA of respirable
	•		vill be subject to COSHH if p	•
			els. Some dusts have been a	
			hese must comply with the a	
			erm exposure limit is listed, a	
		•	•	
	umes me lo	ng-term exposure lim	in should be used.	



according to Regulation (EC) No. 1907/2006

ProFLAKE Zn 1590 MS Zinc Paste

Version	Revision Date:	SDS Number:	Print Date: 21.02.2022
2.1	19.05.2020	102000025204	Date of first issue: 28.11.2016

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

Substance name	End Use	Exposure routes	Potential health effects	Value
zinc powder — zinc dust (stabilised)	Workers	Inhalation	Long-term systemic effects	5 mg/m3
, , , , , , , , , , , , , , , , ,	Workers	Skin contact	Long-term systemic effects	83 mg/kg
	Consumers	Inhalation	Long-term systemic effects	2.5 mg/m3
	Consumers	Skin contact	Long-term systemic effects	83 mg/kg
	Consumers	Ingestion	Long-term systemic effects	0.83 mg/kg
Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha	Workers	Skin contact	Long-term systemic effects	300 mg/kg
	Consumers	Ingestion	Long-term systemic effects	300 mg/kg
	Consumers	Skin contact	Long-term systemic effects	300 mg/kg
	Consumers	Inhalation	Long-term systemic effects	900 mg/m3

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

Substance name	Environmental Compartment	Value
zinc powder — zinc dust (stabilised)	Fresh water	0.0206 mg/l
	Marine water	0.0061 mg/l
	Fresh water sediment	235.6 mg/kg
	Marine sediment	121 mg/kg
	Soil	106.8 mg/kg

8.2 Exposure controls

Personal protective equipm Eye protection	ent :	Safety glasses
Hand protection Material	:	Solvent-resistant gloves (butyl-rubber)
Remarks	:	Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.



according to Regulation (EC) No. 1907/2006

ProFLAKE Zn 1590 MS Zinc Paste

Version 2.1	Revision Date: 19.05.2020		9S Number: 2000025204	Print Date: 21.02.2022 Date of first issue: 28.11.2016	
			washed after co	l preventive skin protection Skin should be ontact. The suitability for a specific workplace ussed with the producers of the protective	
Skin	Skin and body protection		Choose body protection according to the amount and concentration of the dangerous substance at the work place.		
Resp	Respiratory protection		Use suitable breathing protection if workplace concentration requires. In the case of dust or aerosol formation use respirator with an approved filter.		
Envi	ronmental exposure o	contro	ols		
Wate	Water :		Do not flush int	o surface water or sanitary sewer system.	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: Pasty solid
Colour	: silver
Odour	: characteristic
Odour Threshold	: No data available
рН	: No data available
Freezing point	: No data available
Boiling point/boiling range	: No data available
Flash point	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: Combustible Solids
Self-ignition	: No data available
Auto-ignition temperature	: No data available
Smoldering temperature	: No data available
Decomposition temperature	: No data available
Explosive properties	: No data available

according to Regulation (EC) No. 1907/2006



ProFLAKE Zn 1590 MS Zinc Paste

Versi 2.1		Revision Date: 19.05.2020	SDS Number: 102000025204	Print Date: 21.02.2022 Date of first issue: 28.11.2016
(Oxidizin	g properties	: No data available)
	Upper explosion limit / Upper flammability limit		: No data available	
	Lower explosion limit / Lower flammability limit		: No data available)
١	Vapour	pressure	: No data available)
F	Relative	vapour density	: No data available	2
F	Relative	density	: No data available	2
[Density		: No data available)
E	Bulk der	nsity	: No data available)
ŝ	Solubility(ies) Water solubility		: insoluble	
Ś	Solubility	y in other solvents	: No data available)
	Partition	coefficient: n- water	: No data available	
[Decomp	osition temperature	: No data available)
١	Viscosity	y, dynamic	: No data available)
١	Viscosity	y, kinematic	: No data available)
F	Flow tim	e	: No data available)
		· · · · · · · · · · · · · · · · · · ·		

9.2 Other information

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.

No decomposition if stored and applied as directed.



according to Regulation (EC) No. 1907/2006

ProFLAKE Zn 1590 MS Zinc Paste

Version 2.1	Revision Date: 19.05.2020	SDS Number: 102000025204	Print Date: 21.02.2022 Date of first issue: 28.11.2016		
	ditions to avoid litions to avoid	: Do not allow e No data availa	vaporation to dryness. ble		
10.5 Incompatible materials Materials to avoid		: Acids Bases Oxidizing ager	ıts		
10.6 Haza	ardous decomposition	products			
Contact with water or humid air		: This informatic	n is not available.		
Therr	nal decomposition	: This information	n is not available.		
SECTION	N 11: Toxicological in	nformation			
11.1 Infor	mation on toxicologica	al effects			
Acute toxicity					
Not c	Not classified based on available information.				
<u>Com</u>	ponents:				
zinc	powder — zinc dust (s	tabilised):			

Acute oral toxicity	:	(Rat): > 2,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 5.41 mg/l Exposure time: 4 h Test atmosphere: dust/mist

Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha:

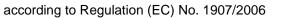
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): Test atmosphere: vapour Remarks: An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

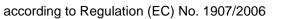
Not classified based on available information.





ProFLAKE Zn 1590 MS Zinc Paste

Version 2.1	Revision Date: 19.05.2020	SDS Number: 102000025204	Print Date: 21.02.2022 Date of first issue: 28.11.2016			
Res	piratory or skin sensi	tisation				
	n sensitisation					
Not	classified based on ava	ailable information.				
	Respiratory sensitisation Not classified based on available information.					
	Germ cell mutagenicity Not classified based on available information.					
	cinogenicity classified based on ava	ailable information.				
Rep	productive toxicity					
Not	classified based on ava	ailable information.				
	DT - single exposure classified based on ava	ailable information.				
	OT - repeated exposur					
Not	classified based on ava	ailable information.				
-	iration toxicity classified based on ava	ailable information				
	ther information					
	duct:					
	narks: No data available	e				
<u>Cor</u>	nponents:					
zinc	powder — zinc dust	(stabilised):				
Ren	narks: No data available	9				
Nap	ohtha (petroleum), hyc	Irotreated heavy; Lov	v boiling point ydrogen treated naphtha:			
Ren	narks: Solvents may de	grease the skin.				
SECTIC	N 12: Ecological in	formation				
12.1 Tox	licity					
<u>Cor</u>	nponents:					
zinc	: powder — zinc dust	(stabilised):				
Sho	Ecotoxicology Assessment Short-term (acute) aquatic : Very toxic to aquatic life. hazard					





ProFLAKE Zn 1590 MS Zinc Paste

Version 2.1	Revision Date: 19.05.2020		S Number: 2000025204	Print Date: 21.02.2022 Date of first issue: 28.11.2016			
	istence and degradab i ata available	ility					
	ccumulative potential ata available						
	ility in soil ata available						
12.5 Resu	ults of PBT and vPvB a	isses	sment				
<u>Prod</u> Asse	<u>uct:</u> ssment		to be either persis	ixture contains no components considered stent, bioaccumulative and toxic (PBT), or ad very bioaccumulative (vPvB) at levels of			
12.6 Othe	er adverse effects						
Prod	uct:						
	ional ecological nation	:	unprofessional ha	hazard cannot be excluded in the event of andling or disposal. atic life with long lasting effects.			
Com	ponents:						
zinc	zinc powder — zinc dust (stabilised):						
	ional ecological nation	:	unprofessional ha	hazard cannot be excluded in the event of andling or disposal. atic life with long lasting effects.			
Napł	Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha:						
	ional ecological nation	:	No data available				

SECTION 13: Disposal considerations

European Waste Catalogue European Waste Catalogue		12 01 04 - non-ferrous metal dust and particles 10 03 21 - other particulates and dust (including ball-mill dust) containing hazardous substances
13.1 Waste treatment methods		
Product	:	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. In accordance with local and national regulations.



according to Regulation (EC) No. 1907/2006

ProFLAKE Zn 1590 MS Zinc Paste

Versio 2.1	n Revision Date: 19.05.2020		OS Number: 2000025204	Print Date: 21.02.2022 Date of first issue: 28.11.2016
Contaminated packaging		:	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. In accordance with local and national regulations.	
SECT	ION 14: Transport inforr	nat	tion	
14.1 U	IN number			
Α	DR	:	UN 3077	
IN	MDG	:	UN 3077	
IA	ATA	:	UN 3077	
14.2 U	IN proper shipping name			
A	DR	:	ENVIRONMENTA N.O.S. (Zinc powder, sta	ALLY HAZARDOUS SUBSTANCE, SOLID, bilized)
II	MDG	:	ENVIRONMENTA N.O.S. (Zinc powder, sta	ALLY HAZARDOUS SUBSTANCE, SOLID, bilized)
IA	ATA	:	Environmentally h (Zinc powder, sta	nazardous substance, solid, n.o.s. bilized)
14.3 T	ransport hazard class(es)			
Α	DR	:	9	
IN	MDG	:	9	
IA	ATA	:	9	
14.4 P	Packing group			
P C H L: P L:	ADR Packing group Classification Code lazard Identification Number abels MDG Packing group abels	:	III M7 90 9 III 9	
E R	mS Code Jemarks	:	F-A, S-F	egation group 7 - Heavy metals and their
Р	ATA (Cargo) acking instruction (cargo ircraft)	:	956	
P	acking instruction (LQ)	:	Y956	



according to Regulation (EC) No. 1907/2006

ProFLAKE Zn 1590 MS Zinc Paste

Versi 2.1	ion	Revision Date: 19.05.2020		DS Number: 2000025204	Print Date: 21.02.2022 Date of first issue: 28.11.2016
	Packin Labels	g group	:	III Class 9 - Miscella	aneous dangerous substances and articles
IATA (Passenger) Packing instruction (passenger aircraft) Packing instruction (LQ) Packing group Labels		:	956 Y956 III Class 9 - Miscella	aneous dangerous substances and articles	
14.5 Environmental hazards					
	ADR Enviror	nmentally hazardous	:	yes	
	IMDG Marine	pollutant	:	yes	
		Passenger) nmentally hazardous	:	yes	
	•	Cargo) nmentally hazardous	:	yes	
14.6 Special precautions for user			ər		
I	Remar	ks	:	packagings conta	gings <=5L / 5 kg, or combination aining inner packagings <= 5L / 5 kg net per SV375 ADR, 2.10.2.7 IMDG-Code, A197 be applied.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High : Not applicable Concern for Authorisation (Article 59).

15.2 Chemical safety assessment

SECTION 16: Other information

Full text of H-Statements

H304 :	May be fatal if swallowed and enters airways.
H400 :	Very toxic to aquatic life.
H410 :	Very toxic to aquatic life with long lasting effects.

according to Regulation (EC) No. 1907/2006



ProFLAKE Zn 1590 MS Zinc Paste

Version	Revision Date:	SDS Number:	Print Date: 21.02.2022
2.1	19.05.2020	102000025204	Date of first issue: 28.11.2016

Full text of other abbreviations

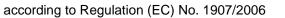
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Asp. Tox.	:	Aspiration hazard
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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 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; 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.

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ProFLAKE Zn 1590 MS Zinc Paste

VersionRevision Date:SDS Number:Print Date:21.02.20222.119.05.2020102000025204Date of first issue:28.11.2016