according to Regulation (EC) No. 1907/2006



## SILVERSHINE S1500

**1.1 Product identifier** 

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

Trade name	:	SILVERSHINE S 1500
Product code	:	053038JD0
1.2 Relevant identified uses of	of the s	ubstance or mixture and uses advised against
Use of the Substance/Mixture	:	Colorant; Printing ink related material; Printing ink, Colouring agents, dyes
1.3 Details of the supplier of	the safe	ety data sheet

Company	ECKART Suisse SA Route de la Brasserie 2 1963 Vétroz
Telephone	: +410273454800
Telefax	: +410273454859
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)

Flammable liquids, Category 3 Specific target organ toxicity - single exposure, Category 3, Central nervous system H226: Flammable liquid and vapour. H336: May cause drowsiness or dizziness.

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Haza	rd pictograms	:		!
Signa	al word	:	Warning	$\mathbf{V}$
Haza	rd statements	:	H226 H336	Flammable liquid and vapour. May cause drowsiness or dizziness.
Preca	autionary statements	:	Prevention: P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
			P261	Avoid breathing mist or vapours.
			<b>Response:</b> P303 + P361 +	P353 IF ON SKIN (or hair): Take off
			1 303 +1 301 +	immediately all contaminated clothing. Rinse skin with water.
			P304 + P340 +	P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
			P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
			Storage:	-
			P403 + P233	Store in a well-ventilated place. Keep container tightly closed.

### Hazardous components which must be listed on the label:

1-methoxy-2-propanol

#### 2.3 Other hazards

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

## Components

Chemical name	CAS-No.	ClassificationREGUL	Concentration
	EC-No.	ATION (EC) No	(% w/w)
	Index-No.	1272/2008	
	Registration number		
1-methoxy-2-propanol	107-98-2	Flam. Liq. 3; H226	>= 50 - <= 100
		STOT SE 3; H336	
	203-539-1	(Central nervous	
	603-064-00-3	system)	
	01-2119457435-35		

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alum	inium powder (stabilised)	7429-90-5	Flam. Sol. 1; H228 >= 25 - < 50	0
		231-072-3 013-002-00-1 01-2119529243-4	45	
Fore	explanation of abbreviation	ins see section 16	·	

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.
		Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	:	Remove to fresh air. Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.
In case of skin contact	:	Wash off immediately with soap and plenty of water.
		If on clothes, remove clothes.
In case of eye contact	:	Immediately flush eye(s) with plenty of water.
		Flush eyes with water as a precaution. Remove contact lenses. Keep eye wide open while rinsing. 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 a	and e	effects, both acute and delayed

#### Risks : May cause drowsiness or dizziness.

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 ABC powder

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			Foam	
Unsuitable extinguishing media		:	High volume wate Carbon dioxide (C	
			High volume wate	r jet
5.2 Special	hazards arising from	the	e substance or mi	xture
Specific hazards during firefighting		:	Do not allow run-o courses.	off from fire fighting to enter drains or water
5.3 Advice for firefighters				
Special protective equipment for firefighters		:	Wear self-contair necessary.	ed breathing apparatus for firefighting if
Further	• information	must not be discharged Fire residues and conta be disposed of in accor For safety reasons in ca separately in closed co Use extinguishing meas circumstances and the		contaminated fire extinguishing water must accordance with local regulations. s in case of fire, cans should be stored

### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective	equipment and emergency procedures
Personal precautions :	Evacuate personnel to safe areas. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
6.2 Environmental precautions	
Environmental precautions :	The product should not be allowed to enter drains, water courses or the soil.
	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.

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	ds and material for conduct of the second states of	: Use mechanica	<b>ning up</b> al handling equipment. hert absorbent material (e.g. sand, silica gel,
		acid binder, un Contain spillag absorbent mate vermiculite) an	iversal binder, sawdust). e, and then collect with non-combustible erial, (e.g. sand, earth, diatomaceous earth, d place in container for disposal according to regulations (see section 13).

### 6.4 Reference to other sections

For personal protection see section 8.

## **SECTION 7: Handling and storage**

before use. ibited in the
ibited in the
discharges. st in work rooms. r pressure. cal and national
escent material. ity discharge rs). Keep away of ignition.
workday.
sential. Reaction (hydrogen) Take atic charge. Use container. Keep ated place. Keep Keep container
a dry and well- ed must be t leakage. tions / working safety

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-	urther information on torage conditions	: Protect from	Protect from humidity and water.		
Д	dvice on common storage	Do not store Never allow p storage. Keep away f	near acids. together with oxidizing and self-igniting products. product to get in contact with water during rom oxidizing agents, strongly alkaline and materials in order to avoid exothermic reactions.		
-	urther information on torage stability	: No decompo	sition if stored and applied as directed.		

### 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	Control parameters	Basis	
		of exposure)			
1-methoxy-2-	107-98-2	STEL	150 ppm	2000/39/EC	
propanol			568 mg/m3		
	Further inform skin, Indicativ		possibility of significant upta	ke through the	
		TWA	100 ppm	2000/39/EC	
			375 mg/m3		
			possibility of significant upta	ke through the	
	skin, Indicativ				
		TWA	100 ppm	GB EH40	
			375 mg/m3		
	Further inform	nation: Can be absor	bed through the skin. The as	signed	
	substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.				
		STEL	150 ppm	GB EH40	
			560 mg/m3		
	Further information: Can be absorbed through the skin. The assigned				
	substances are those for which there are concerns that dermal absorption will				
	lead to systemic toxicity.				
aluminium powder	7429-90-5	TWA (Inhalable)	10 mg/m3	GB EH40	
(stabilised)					
		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 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				

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	conc inhala any c levels must partic partic respondistin and ' mate availa to the defin conta shou	entration in air equal to able dust or 4 mg.m-3 dust will be subject to 0 s. Some dusts have be comply with the appro- cles of a wide range of cular particle after entry onse that it elicits, depo- nguishes two size fraction respirable'., Inhalable of rial that enters the nos able for deposition in the fraction that penetrate itions and explanatory ain components that hat ld be complied with., V ure three times the long TWA (Respi	alth includes dust of any ki or greater than 10 mg.m- 8-hour TWA of respirable of COSHH if people are expos- een assigned specific WEL priate limits., Most industri sizes. The behaviour, dep v into the human respirator end on the nature and size ons for limit-setting purpos dust approximates to the fr e and mouth during breath he respiratory tract. Respirates to the gas exchange reg material are given in MDH we their own assigned WE /here no specific short-term g-term exposure limit shoul rable 4 mg/m3	3 8-hour TWA of dust. This means that sed to dust above these s and exposure to these al dusts contain osition and fate of any y system, and the body of the particle. HSE ses termed 'inhalable' action of airborne ing and is therefore able dust app roximates gion of the lung. Fuller S14/4., Where dusts L, all the relevant limits m exposure limit is listed
	inhala when MDH respi subs conc inhala any c levels must partic partic respo distir and ' mate availa to the defin conta	able dust are those fra a sampling is undertake IS14/4 General method rable, thoracic and inha- tance hazardous to hea entration in air equal to able dust or 4 mg.m-3 dust will be subject to 0 s. Some dusts have be comply with the appro- cles of a wide range of cular particle after entry onse that it elicits, depo- nguishes two size fract respirable'., Inhalable of rial that enters the nos able for deposition in the e fraction that penetrate itions and explanatory ain components that ha	purposes of these limits, r ctions of airborne dust white in in accordance with the r ls for sampling and gravim alable aerosols., The COS alth includes dust of any ki o or greater than 10 mg.m- 8-hour TWA of respirable of COSHH if people are expos- een assigned specific WEL priate limits., Most industri sizes. The behaviour, dep v into the human respirator end on the nature and size fons for limit-setting purpos dust approximates to the fir e and mouth during breath he respiratory tract. Respire so to the gas exchange reg material are given in MDH we their own assigned WE	ch will be collected nethods described in etric analysis or HH definition of a nd when present at a 3 8-hour TWA of dust. This means that sed to dust above these s and exposure to these al dusts contain osition and fate of any y system, and the body of the particle. HSE ses termed 'inhalable' action of airborne ing and is therefore able dust approximates gion of the lung. Fuller S14/4., Where dusts L, all the relevant limits

Substance name	End Use	Exposure routes	Potential health	Value
			effects	
1-methoxy-2-propanol	Workers	Inhalation	Long-term systemic	369 mg/m3
			effects	
	Workers	Inhalation	Acute local effects	553.5 mg/m3
	Workers	Skin contact	Long-term systemic effects	50.6 mg/kg

according to Regulation (EC) No. 1907/2006



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		Consumers	Inhalation	1	Long-term systemic effects	43.9 mg/m3
		Consumers	Skin cont	act	Long-term systemic effects	18.1 mg/kg
		Consumers	Ingestion		Long-term systemic effects	3.3 mg/kg
	minium powder abilised)	Workers	Inhalation	I	Long-term systemic effects	3.72 mg/m3
		Workers	Inhalation	I	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
1-methoxy-2-propanol	Fresh water	10 mg/l
	Marine water	1 mg/l
	STP	100 mg/l
	Fresh water sediment 41.6 mg/kg	
	Marine sediment	4.17 mg/kg
	Soil	2.47 mg/kg
	periodical release	100 mg/l
aluminium powder (stabilised)	Fresh water	0.0749 mg/l
	clarification plant	20 mg/l

### 8.2 Exposure controls

Personal protective equipmentEye/face protection:Hand protection	Goggles Tightly fitting safety goggles
Material :	Solvent-resistant gloves (butyl-rubber)
Remarks :	The suitability for a specific workplace should be discussed with the producers of the protective gloves. 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. Recommended preventive skin protection Skin should be washed after contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Skin and body protection :	Impervious clothing Choose body protection according to the amount and

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Resp	iratory protection		of the dangerous substance at the work place. reathing protection if workplace concentration

## **SECTION 9: Physical and chemical properties**

1 Information on basic physical Physical state	l an :	d chemical properties viscous
Colour	:	silver
Odour	:	characteristic
Odour Threshold	:	No data available
Freezing point	:	No data available
Boiling point/boiling range	:	120 °C
Flammability	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	35 °C
Auto-ignition temperature	:	Not relevant
Decomposition temperature	:	No data available
рН	:	substance/mixture is non-soluble (in water)
Viscosity, kinematic	:	No data available
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Vapour pressure	:	No data available
Relative density	:	No data available
Density	:	1.4 g/cm3
Relative vapour density	:	No data available

## 9.1 Information on basic physical and chemical properties

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Pa	article Size Distribution	: No data ava	lable
9.2 Other	information		
No da	ata available		
SECTIO	N 10: Stability and r	eactivity	
10.1 Read	•	and applied as direc	tod
	ecomposition if stored	and applied as direc	tea.
	nical stability ecomposition if stored	and applied as direc	ted.
10.3 Poss	sibility of hazardous r	eactions	
Haza	rdous reactions	: Contact with	acids and alkalis may release hydrogen.
		No decompo	osition if stored and applied as directed.
		Vapours may	y form explosive mixture with air.
10.4 Cond	ditions to avoid		
Cond	litions to avoid	: Do not allow	evaporation to dryness.
		Heat, flames	and sparks.
10.5 Inco	mpatible materials		
	rials to avoid	: Acids Bases	
Mate			

This information is not available.

### **SECTION 11: Toxicological information**

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

Acute toxicity Not classified based on available information.

#### **Components:**

<b>1-methoxy-2-propanol:</b> Acute oral toxicity	: LD50 (Rat): 4,016 mg/kg
Acute inhalation toxicity	: LC50 (Rat): > 25.8 mg/l Exposure time: 4 h

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		Test atmosphe	ere: vapour			
Acut	e dermal toxicity	: LD50 (Rabbit):	> 2,000 mg/kg			
	ninium powder (stabili te inhalation toxicity	sed): : LC50 (Rat): > Exposure time Test atmosphe	: 4 h			
	<b>corrosion/irritation</b> classified based on ava	ilable information.				
	ous eye damage/eye i classified based on ava					
Res	piratory or skin sensit	isation				
-	<b>sensitisation</b> classified based on ava	ilable information.				
-	<b>piratory sensitisation</b> classified based on ava	ilable information.				
	Germ cell mutagenicity Not classified based on available information.					
	<b>cinogenicity</b> classified based on ava	ilable information.				
-	roductive toxicity classified based on ava	ilable information.				
	<b>T - single exposure</b> cause drowsiness or d	izziness.				
	<b>T - repeated exposure</b> classified based on ava					
-	<b>iration toxicity</b> classified based on ava	ilable information.				
11.2 Info	rmation on other haza	ards				
Furt	her information					
Proc	duct:					
Rem	arks	tiredness, naus Concentrations narcotic effect	overexposure may be headache, dizziness, sea and vomiting. s substantially above the TLV value may cause s. degrease the skin.			

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### **SECTION 12: Ecological information**

#### 12.1 Toxicity

No data available

## 12.2 Persistence and degradability

No data available

#### **12.3 Bioaccumulative potential** No data available

### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment

: 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.

#### 12.6 Endocrine disrupting properties

No data available

### 12.7 Other adverse effects

Product:

Additional ecological : No data available information

### **SECTION 13: Disposal considerations**

European Waste Catalogue	:	08 01 11 - waste paint and varnish containing organic solvents or other dangerous substances
13.1 Waste treatment methods		
Product	:	Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

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SECTION	N 14: Transport infor	ma	tion	
14.1 UN n	umber or ID number			
ADR		:	UN 1263	
IMDG		:	UN 1263	
ΙΑΤΑ		:	UN 1263	
14.2 UN p	roper shipping name			
ADR		:	PAINT	
IMDG		:	PAINT	
ΙΑΤΑ		:	Paint	
14.3 Trans	sport hazard class(es)			
			Class	Subsidiary risks
ADR		:	3	
IMDG		:	3	
ΙΑΤΑ		:	3	
14.4 Pack	ing group			
Class Hazar Labels	ng group ification Code d Identification Number s l restriction code	:	III F1 30 3 (D/E)	
IMDG	ng group s	:	III 3 F-E, <u>S-E</u>	
	<b>(Cargo)</b> ng instruction (cargo	:	366	
Packi	ng instruction (LQ) ng group	:	Y344 III 3	
Packi (pass Packi	<b>(Passenger)</b> ng instruction enger aircraft) ng instruction (LQ) ng group s	:	355 Y344 III 3	
14.5 Envir	onmental hazards			

ADR

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Environmentally hazardous		: no	
IMDG Marine pollutant		: no	

#### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country 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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 3 1-methoxy-2-propanol (Number on list 40, 3) aluminium powder (stabilised) (Number on list 40)
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable

#### 15.2 Chemical safety assessment

No data available

### **SECTION 16: Other information**

Full text of H-Statements H226 H228 H336	: :	Flammable liquid and vapour. Flammable solid. May cause drowsiness or dizziness.
Full text of other abbreviati Flam. Liq. Flam. Sol. STOT SE 2000/39/EC	:	Flammable liquids Flammable solids Specific target organ toxicity - single exposure Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

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2000/ GB E	H40 39/EC / TWA 39/EC / STEL H40 / TWA H40 / STEL	: Limit Value - e : Short term exp : Long-term exp	•

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 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

Classification of the mixtur	Classification procedure:	
Flam. Liq. 3	H226	Based on product data or assessment
STOT SE 3	H336	Calculation method

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

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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