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

1.1 Product identifier

Trade name	:	ENERGY LINE UNDERBODY BLACK
Product code	:	L0EL0050

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

Use of the Substance/Mixture	:	Paints, varnishes and enamels
Chemical nature	:	Mono compound primer (undercoat)

1.3 Details of the supplier of the safety data sheet

Company	: Lechler SpA
	Via Cecilio 17
	22100 Como- CO-
Telephone	: +39031586111
Telefax	: +39031586206
E-mail address	: safety@lechler.eu
Responsible/issuing person	

1.4 Emergency telephone number

Tel. +39-031-586301 - This telephone number is available during office hours only. (8.00-18.00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1

Eye irritation, Category 2 Reproductive toxicity, Category 2 Specific target organ toxicity - single exposure, Category 3, Central nervous system H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

H319: Causes serious eye irritation.

H361d: Suspected of damaging the unborn child.

H336: May cause drowsiness or dizziness.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms			
Signal word	: Danger		
Hazard statements	: H222 H229 H319 H336 H361d	Extremely flammable a Pressurised container: Causes serious eye irrit May cause drowsiness Suspected of damaging	May burst if heated. tation. or dizziness.
Precautionary statements	EUH066Repeate cracking. : Prevention:	ed exposure may cause sk	
	P201 P210	Obtain special instruction Keep away from heat, he open flames and other smoking.	not surfaces, sparks,
	P211	Do not spray on an ope ignition source.	n flame or other
	P251	Do not pierce or burn, e	even after use.
	P280	Wear protective gloves, eye protection/ face pro	
	Storage: P410 + P412	Protect from sunlight. D temperatures exceeding	

Hazardous components which must be listed on the label:

- 110-19-0 isobutyl acetate
- 108-88-3 toluene

2.3 Other hazards

None known. The information required is contained in this Material Safety Data Sheet.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature

: Liquid pigmented dispersion

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
toluene	108-88-3 203-625-9	Flam. Liq. 2; H225 Skin Irrit. 2; H315	>= 5 - < 10

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	01-2119471310-51	Repr. 2; H361d STOT SE 3; H336 STOT RE 2; H373 Asp. Tox. 1; H304 **, ***	
butanone	78-93-3 201-159-0 01-2119457290-43	EUH066 Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 5 - < 10
ethyl acetate	141-78-6 205-500-4 01-2119475103-46	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 5 - < 10
Substances with a work	place exposure limit :		
dimethyl etherdimethyl ether	115-10-6 204-065-8 01-2119472128-37-0001	Flam. Gas 1; H220 Press. Gas Note U (Table 3)	>= 30 - < 50
isobutyl acetate	110-19-0 203-745-1 01-2119488971-22	Flam. Liq. 2; H225 STOT SE 3; H336 Note C	>= 5 - < 10
n-butyl acetate	123-86-4 204-658-1 01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336	>= 5 - < 10

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	: When symptoms persist or in all cases of doubt seek medical advice. Never give anything by mouth to an unconscious person.
If inhaled	 Remove to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious, place in recovery position and seek medical advice.
In case of skin contact	 Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. Put shower on working place
In case of eye contact	 Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Seek medical advice. Put eye-washer on working place

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	Remove contact lenses.		
If swallowed	 If accidentally swallowed obtain imme Do NOT induce vomiting. Keep at rest. 	diate medical attention.	
4.2 Most important symptoms a	4.2 Most important symptoms and effects, both acute and delayed		
Symptoms	: No information available.		
Risks	: No information available.		
4.3 Indication of any immediate medical attention and special treatment needed			
Treatment	: The first aid procedure should be esta with the doctor responsible for industr Seek medical advice.		

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	 Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Keep containers and surroundings cool with water spray.
Unsuitable extinguishing media	: Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	 As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health. Cool closed containers exposed to fire with water spray. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.3 Advice for firefighters

Special protective equipment	:	Wear self-contained breathing apparatus for firefighting if
for firefighters		necessary.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Solvent vapours are heavier than air and may spread along floors.
	Ensure adequate ventilation.

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	Use personal protective equipment. Evacuate personnel to safe areas. Keep people away from and upwind of spill/ Ventilate the area.	leak.
6.2 Environmental precautions		
Environmental precautions	 Try to prevent the material from entering dra courses. If the product contaminates rivers and lakes respective authorities. 	
6.3 Methods and materials for conta	ainment and cleaning up	
Methods for cleaning up	 Clean with detergents. Avoid solvents. Contain and collect spillages with non-comb materials, e.g. sand, earth, vermiculite, diate and place in a suitable container. The conta should be cleaned up immediately with a su decontaminant. One possible (flammable) of comprises water (45 parts by volume)/ethan (50 parts)/concentrated (d: 0.880) ammonia solution (5 parts). A no alternative is sodium carbonate (5 parts)/wa Pick up and transfer to properly labelled cor Clean contaminated surface thoroughly. Dam up. Soak up with inert absorbent material and d hazardous waste. 	omaceous earth aminated area itable decontaminant nol or isopropanol n-flammable iter (95 parts). ntainers.

6.4 Reference to other sections

Refer to section 15 for specific national regulation.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	 Avoid exceeding the given occupational exposure limits (see section 8). Use only in area provided with appropriate exhaust ventilation. Avoid contact with skin, eyes and clothing. Smoking, eating and drinking should be prohibited in the application area. Avoid inhalation of vapour or mist. For personal protection see section 8. Thoroughly mix before using After using, store in a well-sealed container
Advice on protection against fire and explosion	 Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. When transferring from one container to another apply earthing measures and use conductive hose material.

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	No sparking tools should be used. The product should only be used in a naked lights and other sources of igr excluded. No smoking.	
7.2 Conditions for safe storage, in	cluding any incompatibilities	
Requirements for storage areas and containers	 Observe label precautions. Containers which are opened must be kept upright to prevent leakage. Solvent vapours are heavier than air floors. Vapours may form explosive mixture Electrical installations / working mate the technological safety standards. Keep away from sources of ignition - Store between 5° an 35°C in a dry, w from source of heat, ignition and dire Store in accordance with the particul 	and may spread along as with air. erials must comply with - No smoking. vell ventilated place away ect sunlight.
Advice on common storage	: Keep away from oxidizing agents an materials.	d strongly acid or alkaline
German storage class	: 2B Aerosol cans and lighters	
7.3 Specific end use(s)		
	: This information is not available.	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components	C	CAS-No.	Value	Control parameters	Update	Basis
dimethyl ether	1	15-10-6	TWA	1.000 ppm 1.920 mg/m3	2000-06-16	2000/39/EC
Further information	••	Indicative				
isobutyl acetate	1	10-19-0	TWA	50 ppm	2016-03-01	ACGIH
			STEL	150 ppm	2016-03-01	ACGIH
toluene	1	08-88-3	TWA	50 ppm 192 mg/m3	2006-02-09	2006/15/EC
Further information	:	Indicativelo	lentifies the p	oossibility of significant	uptake through the skin	
			STEL	100 ppm 384 mg/m3	2006-02-09	2006/15/EC
Further information	:	Indicativelo	lentifies the p	oossibility of significant	uptake through the skin	
butanone	7	8-93-3	TWA	200 ppm 600 mg/m3	2000-06-16	2000/39/EC

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Further information	: Indicative)			
		STEL	300 ppm 900 mg/m3	2000-06-16	2000/39/EC
Further information	: Indicative)			
ethyl acetate	141-78-6	STEL	400 ppm 1.468 mg/m3	2017-02-01	2017/164/EU
Further information	: Indicative	;			
		TWA	200 ppm 734 mg/m3	2017-02-01	2017/164/EU
Further information	: Indicative)			
n-butyl acetate	123-86-4	TWA	50 ppm	2016-03-01	ACGIH
		STEL	150 ppm	2016-03-01	ACGIH

DNEL toluene

toluene :	End Use: Consumers Exposure routes: Skin contact Potential health effects: Long-term systemic effects Value: 226 mg/m3 End Use: Consumers
	Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 226 mg/kg
	End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 56,5 mg/m3
	End Use: Consumers Exposure routes: Ingestion Potential health effects: Long-term systemic effects Value: 8,13 mg/kg
n-butyl acetate :	End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 102,34 mg/m3
	End Use: Consumers Exposure routes: Inhalation Potential health effects: Acute local effects Value: 859,7 mg/m3
	End Use: Consumers Exposure routes: Inhalation Potential health effects: Acute systemic effects Value: 859,7 mg/m3

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	End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term syste Value: 102,34 mg/m3	emic effects
	End Use: Workers Exposure routes: Inhalation Potential health effects: Acute local effe Value: 960 mg/m3	ects
	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term loca Value: 480 mg/m3	l effects
	End Use: Workers Exposure routes: Inhalation Potential health effects: Acute systemic Value: 960 mg/m3	effects
	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term syste Value: 480 mg/m3	emic effects
PNEC toluene	: Fresh water	
	Value: 0,68 mg/l Marine water Value: 0,68 mg/l	
	Fresh water sediment Value: 16,39 mg/kg	
	Marine sediment Value: 16,39 mg/kg	
	Soil Value: 2,89 mg/kg	
n-butyl acetate	: Fresh water Value: 0,18 mg/l	
	Intermittent use/release Value: 0,36 mg/l	
	Marine water Value: 0,01 mg/l	
	Fresh water sediment Value: 0,98 mg/kg	
	Marine sediment	

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Value: 0,09 mg/kg

Soil Value: 0,09 mg/kg

Sewage treatment plant Value: 35,6 mg/l

8.2 Exposure controls

Personal protective equipment				
Respiratory protection	:	Provide adequate ventilation.		
Hand protection	:	Solvent-resistant gloves (butyl-rubber) For prolonged or repeated contact use protective gloves. Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred. Skin should be washed after contact. Wash your hands and put on barrier creams Protective gloves complying with EN 374. 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. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves.		
Eye protection	:	Chemical resistant goggles must be worn.		
Skin and body protection	:	Skin should be washed after contact. Workers should wear antistatic footwear. Personnel should wear protective clothing. Flame retardant antistatic protective clothing.		
Environmental exposure controls				
General advice	:	Try to prevent the material from entering drains or water courses. If the product contaminates rivers and lakes or drains inform respective authorities.		

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: aerosol
Odour	: solvent-like

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Flash point	: <0°C	
Ignition temperature	: not determined	
Lower explosion limit	: No data available	
Upper explosion limit	: No data available	
Auto-ignition temperature	: Not applicable	
рН	: not determined	
Freezing point	: Not applicable	
Boiling point	: not determined	
Vapour pressure	: 1,000 hPa at 50 °C	
Density	: 0,6814 g/cm3	
Water solubility	: not determined	
Partition coefficient: n- octanol/water	: No data available	
Solubility in other solvents	: not determined	
Relative vapour density	: Not applicable	
Evaporation rate	: not determined	

9.2 Other information

Volatile organic compounds : 100 % (VOC) content

SECTION 10: Stability and reactivity

10.1 Reactivity

None reasonably foreseeable.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	No dangerous reaction known under conditions of normal use.
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10.4 Conditions to avoid

Conditions to avoid	 Our products were manufactured in compliance with safety standards to avoid decomposition and degrading under the defined conditions. Taking the product type into account, it is advisable to leave the product in its original packaging thus avoiding transferring
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	it.	
10.5 Incompatible materials		
Materials to avoid	: Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.	
10.6 Hazardous decomposition	products	
Hazardous decomposition	: Carbon dioxide (CO2), carbon mono	

products		nitrogen (NOx), dense black smoke.
Thermal decomposition	:	Not applicable

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product		
Acute inhalation toxicity	:	Inhalation of airborne droplets may cause irritation of the respiratory tract.
Further information	:	The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.
<u>Components:</u>		

n-butyl acetate : Acute oral toxicity	: LD50: 10.760 mg/kg, Rat(female), OECD Test Guideline 423
Acute inhalation toxicity	: LC50: > 23,4 mg/l, 4 h, Rat, OECD Test Guideline 403
Acute dermal toxicity	: LD50: > 14.000 mg/kg, Rabbit, OECD Test Guideline 402

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

Remarks: No data is available on the product itself.

Toxicity to fish	
n-butyl acetate	: LC50: 18 mg/l Exposure time: 96 h

:

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Species: Pimephales promelas (fathead minnow) Method: OECD Test Guideline 203

12.2 Persistence and degradability

Biodegradability	: No data available
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12.3 Bioaccumulative potential

a available
at

12.4 Mobility in soil

Mobility : No data available

12.5 Results of PBT and vPvB 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 Other adverse effects

Additional ecological	:	There is no data available for this product.
information		

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	 The product should not be allowed to enter drains, water courses or the soil. Disposal together with normal waste is not allowed. Special disposal required according to local regulations.
Contaminated packaging	 Empty containers should be taken to an approved waste handling site for recycling or disposal. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. The Waste code should be assigned in discussion between the user, the producer and the waste disposal company. The following Waste Codes are only suggestions: 150110*

SECTION 14: Transport information

14.1 UN number

ADR	:	UN 1950
IMDG	:	UN 1950
ΙΑΤΑ	:	UN 1950

Revision Date 25.02.2020 Version 1.13 14.2 Proper shipping name

ADR	AEROSOLS
IMDG	AEROSOLS
ΙΑΤΑ	AEROSOLS

14.3 Transport hazard class(es)

ADR	:
IMDG	: 2.1
ΙΑΤΑ	: 2.1

14.4 Packing group

ADR

Packing group	: Not assigned by regulation
Classification Code	: F
IMDG	
Packing group	: Not assigned by regulation
Labels	: 2.1

: F-D,S-U

IATA

EmS Code

Packing group	:	II
Labels	:	2.1

14.5 Environmental hazards

ADR

Environmentally hazardous : no

IMDG

Marine pollutant : no

IATA

Environmentally hazardous : no

14.6 Special precautions for user

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Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 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 Concern for Authorisation (Article 59).	: Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	: Banned and/or restricted

108-88-3	toluene
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	: Not applicable
MAL-Code-Number	 3-1 (1993) 1.295-m3 air/10 g Product contains low-boiling liquids. Respiratory protective equipment must be air supplied respirators.
Storage class (TRGS 510)	: 2B: Aerosol cans and lighters
Risk classification according to VbF	: Not applicable
Water contaminating class (Germany)	: highly hazardous to water
	VWVWS A4

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

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15.2 Chemical safety assessment

No data is available on the product itself.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

EUH066	Repeated exposure may cause skin dryness or cracking.
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

List of references

Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures (CLP)

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Official Journal of the European Union L 396 from 30.12.2006, as amended). Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Key or legend to abbreviations and acronyms used in the safety data sheet

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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

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.