SAFETY DATA SHEET

Issuing Date No data available

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Revision Number 1

NGHS / English



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1. IDENTIFICATION

Product identifier	
Product Name	Battery L18C3PF7
Other means of identification	
Product Code(s)	1505958
Recommended use of the chemica	l and restrictions on use
Recommended Use	LITHIUM ION BATTERIES
Restrictions on use	No information available
Details of the supplier of the safety	data sheet
Supplier Identification	Lenovo LNB laptops
Address	Songtao Road 696 shanghai shanghai 201203 CN
Telephone	Phone:18116118603
E-mail	yuanbb1@lenovo.com
Emergency telephone number	
Company Emergency Phone Number	18116118603

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Dermal	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 1B



Specific target organ toxicity (repeated exposure)	Category 1
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This is a battery. In case of rupture: the above hazards exist.

Appearance No information available

Physical state Solid

Odor No information available

GHS Label elements, including precautionary statements

Danger

Hazard statements Toxic in contact with skin Causes skin irritation Causes serious eye damage May cause an allergic skin reaction May cause cancer Causes damage to organs through prolonged or repeated exposure



Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection Wash face, hands and any exposed skin thoroughly after handling Contaminated work clothing must not be allowed out of the workplace Do not breathe dust/fume/gas/mist/vapors/spray Do not eat, drink or smoke when using this product

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Specific treatment (see supplemental first aid instructions on this label) **Eves**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor

Skin

IF ON SKIN: Wash with plenty of water and soap Call a POISON CENTER or doctor if you feel unwell Take off immediately all contaminated clothing and wash it before reuse If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

May be harmful if swallowed. Very toxic to aquatic life with long lasting effects.

Unknown acute toxicity

98.19 % of the mixture consists of ingredient(s) of unknown toxicity



67.12 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
95.06 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
98.19 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
98.19 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
98.19 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
98.19 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable.

Mixture

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Lithium Cobalt Oxide (CoLiO2)	12190-79-3	42.28	-	-
Aluminum foil	7429-90-5	9.68	-	-
Copper	7440-50-8	8.6	-	-
Phosphate(1-), hexafluoro-, lithium	21324-40-3	3.13	-	-
Nickel	7440-02-0	0.45	-	-

4. FIRST AID MEASURES

First aid measures				
General advice	First aid is upon rupture of sealed battery. Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. IF exposed or concerned: Get medical advice/attention.			
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.			
Eye contact	Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area.			
Skin contact	Get immediate medical advice/attention. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction.			
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.			
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8). Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin, eyes or clothing.			
Most important symptoms and effects, both acute and delayed				
Symptoms	Burning sensation. Itching. Rashes. Hives.			
Indication of any immediate medical attention and special treatment needed				



Note to physicians

May cause sensitization in susceptible persons. Treat symptomatically.

	5. FIRE-FIGHTING MEASURES
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.
Hazardous Combustion Products	Carbon oxides.
Explosion Data Sensitivity to Mechanical Impac Sensitivity to Static Discharge	ct None. None.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.		
Other Information	Refer to protective measures listed in Sections 7 and 8.		
Methods and material for containment and cleaning up			
Methods for containment	Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Pick up and transfer to properly labeled containers.		

7. HANDLING AND STORAGE

Precautions for safe handling			
Advice on safe handling	In case of rupture: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Take off contaminated clothing and wash before reuse. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment.		
Conditions for safe storage, including any incompatibilities			
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.		

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

Chemical name		ACGIH T	LV	0	OSHA PEL		NIOSH IDLH	
Lithium Cobalt Oxide (Col	LiO2)	TWA: 0.02 mg/m ³		-				
12190-79-3			<u> </u>					
Aluminum foil		TWA: 1 mg/m ³			mg/m ³ total dust		A: 10 mg/m ³	
7429-90-5		particulate n	natter		ng/m ³ respirable	I WA:	5 mg/m ³ res	spirable dust
				fraction				
				(vacated) TWA: 15 mg/m ³ total				
				dust (vacated) TWA: 5 mg/m ³				
				· · ·	able fraction			
Copper		TWA: 0.2 mg/r	n3 fume		1 mg/m ³ fume		1. 100 mg/m3	dust fume
7440-50-8		1 WA. 0.2 mg/l	in iune		/m ³ dust and mist		IDLH: 100 mg/m ³ dust, fume and mist	
					WA: $0.1 \text{ mg/m}^3 \text{ Cu}$	l twa	: 1 mg/m ³ di	
				dust, fume, mist			TWA: 0.1 mg/m ³ fume	
Phosphate(1-), hexafluo	oro	TWA: 2.5 mg	a∕m³ F	TWA: 2.5 mg/m ³ F		IDLH: 250 mg/m ³ F		
lithium	- ,	- 、		(vacated) TWA: 2.5 mg/m ³				0.
21324-40-3								
Nickel		TWA: 1.5 m	TWA: 1.5 mg/m ³ TWA: 1 mg/m ³				IDLH: 10 m	g/m³
7440-02-0				(vacated) TWA: 1 mg/m ³			TWA: 0.015	mg/m³
Chemical name		Alberta	British C	Columbia	Ontario TWAE	V	1	ebec
Lithium Cobalt Oxide	ΤV	VA: 0.02 mg/m ³	TWA: 0.0	02 mg/m³	TWA: 0.02 mg/	m³	TWA: 0.0)2 mg/m³
(CoLiO2)								
12190-79-3								
	TWA:		TWA: 1.	0 mg/m³	TWA: 1 mg/m			
		v v	TWA: 0.2 mg/m ³					
	I.	WA: 2.5 mg/m ³ TWA: 2.		5 mg/m³	I WA: 2.5 mg/n	ทง	I WA: 2.	5 mg/m³
,								
	т	$M/\Lambda \cdot 1.5 \text{ mg/m}^3$		75 mg/m^3	T\\/A · 1 ma/m	3	Τ \Λ/Λ·1	ma/m ³
	1	wA. 1.5 mg/m	1 VVA. 0.0	55 mg/m°	TVVA. T Mg/m	•	1 VVA. 1	mg/m°
Aluminum foil 7429-90-5 Copper 7440-50-8 Phosphate(1-), hexafluoro-, lithium 21324-40-3 Nickel 7440-02-0	יד ר יד	mg/m³ WA: 0.2 mg/m³ TWA: 1 I'WA: 1 mg/m³ TWA: 0.1 WA: 2.5 mg/m³ TWA: 2.1		0 mg/m ³ 1 mg/m ³ 2 mg/m ³ 5 mg/m ³ 05 mg/m ³	TWA: 1 mg/m³ TWA: 0.2 mg/m³ TWA: 1 mg/m³ TWA: 2.5 mg/m³ TWA: 1 mg/m³		TWA: 0. TWA: 1 TWA: 2.	/m ³ 2 mg/m ³ mg/m ³

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, su	ch as personal protective equipm

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Individ ment

Eye/face protection	Tight sealing safety goggles.
Hand protection	Wear suitable gloves. Impervious gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are



exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties Physical state

Physical state	30liu	
Appearance	No information available	
Odor	No information available	
Color	No information available	
Odor Threshold	No information available	
D	N I I I	
Property	<u>Values</u>	Remarks Method
pH	No data available	None known
Melting / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash Point	No data available	None known
Evaporation Rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water Solubility	Insoluble in water	
Solubility(ies)	No data available	None known
Partition coefficient: n-octanol/wat	er0	
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Other Information		
Explosive properties	No information available	
Oxidizing properties	No information available	
Softening Point	No information available	
Molecular Weight	No information available	
VOC Content (%)	No information available	
Liquid Density	No information available	
Bulk Density	No information available	
Particle Size	No information available	
Particle Size Distribution	No information available	
raiticle Size Distribution		

Solid

10. STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of Hazardous Reactions	None under normal processing.
Hazardous Polymerization	Hazardous polymerization does not occur.

Conditions to avoid

None known based on information supplied.

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

Hazardous Decomposition Products Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Product does not present an acute toxicity hazard based on known or supplied information In case of rupture:
Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Severely irritating to eyes. May cause burns. May cause irreversible damage to eyes.
Skin contact	Specific test data for the substance or mixture is not available. May cause sensitization by skin contact. Causes skin irritation. (based on components). Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Toxic in contact with skin.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed.
Information on toxicological effects	<u>.</u>
Symptoms	Redness. Burning. May cause blindness. Itching. Rashes. Hives. May cause redness and tearing of the eyes.
Numerical measures of toxicity	
Acute Toxicity	
The following values are calculated ATEmix (oral) ATEmix (dermal)	based on chapter 3.1 of the GHS document . 4,848.10 mg/kg 473.50 mg/kg
Unknown acute toxicity 67.12 % of the mixture consists of	98.19 % of the mixture consists of ingredient(s) of unknown toxicity ingredient(s) of unknown acute oral toxicity

95.06 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

98.19 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

98.19 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

98.19 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Nickel	> 9000 mg/kg (Rat)	-	> 10.2 mg/L (Rat)1 h

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

Skin corrosion/irritation	Classification based on data available for ingredients. Irritating to skin.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.



Respiratory or skin sensitization	May cause sensitization by skin contact.	
Germ cell mutagenicity	No information available.	
Carcinogenicity	Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.	

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Lithium Cobalt Oxide	A3	Group 2B	Reasonably Anticipated	Х
(CoLiO2)				
12190-79-3				
Nickel	-	Group 2B	Reasonably Anticipated	Х
7440-02-0		-		

Legend

 ACGIH (American Conference of Governmental Industrial Hygienists) A3 - Animal Carcinogen IARC (International Agency for Research on Cancer) Group 2B - Possibly Carcinogenic to Humans NTP (National Toxicology Program) Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present 			
Reproductive toxicity	No information available.		
STOT - single exposure No information available.			
STOT - repeated exposure	Causes damage to organs through prolonged or repeated exposure.		

No information available.

Aspiration hazard

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Copper	96h EC50: 0.031 - 0.054 mg/L (Pseudokirchneriella subcapitata) 72h EC50: 0.0426 - 0.0535 mg/L (Pseudokirchneriella subcapitata)	96h LC50: 0.0068 - 0.0156 mg/L (Pimephales promelas) 96h LC50: < 0.3 mg/L (Pimephales promelas) 96h LC50: = 0.2 mg/L (Pimephales promelas) 96h LC50: = 0.3 mg/L (Cyprinus carpio) 96h LC50: = 0.052 mg/L (Oncorhynchus mykiss) 96h LC50: = 1.25 mg/L (Lepomis macrochirus) 96h LC50: = 0.112 mg/L (Poecilia reticulata) 96h LC50: = 0.8 mg/L (Cyprinus carpio)	-	48h EC50: = 0.03 mg/L

			1	
Nickel	72h EC50: = 0.18 mg/L 96h LC50: = 1.3 mg/L		-	48h EC50: > 100 mg/L
	(Pseudokirchneriella	(Cyprinus carpio) 96h		48h EC50: = 1 mg/L
	subcapitata) 96h EC50:			C I
0.174 - 0.311 mg/L		LC50: = 10.4 mg/L (Cyprinus carpio) 96h		
	(Pseudokirchneriella	LC50: > 100 mg/L		
	subcapitata)	(Brachydanio rerio)		
	Subcapitata)	(Brachydanio Terio)		
Persistence and Degrada	ability No informati	on available.		
5	2			
Bioaccumulation	There is no	data for this product.		
Mobility	bility No information available.			
Other adverse effects No information available.				
13. DISPOSAL CONSIDERATIONS				
Waste treatment method	<u>ls</u>			
Waste from residues/uni	uead Dispose of i	n accordance with local rea	ulations. Dispose of waste i	in accordance with
products		Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.		
products				
Contaminated packaging Do not reuse		e empty containers.		
containing provident				
California Waste Codes 141				

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste
Lithium Cobalt Oxide (CoLiO2) 12190-79-3	Тохіс
Aluminum foil 7429-90-5	Ignitable powder
Copper 7440-50-8	Toxic
Nickel 7440-02-0	Toxic powder Ignitable powder

14. TRANSPORT INFORMATION

Note:

The transportation of primary lithium cells and batteries is regulated by the International Civil Aviation Organization, International Air Transport Association, International Maritime Dangerous Goods Code and the US Department of Transportation. The batteries must meet the following criteria for shipment: 1. Air shipments must meet the requirements listed in Special Provision A45 of the International Air Transport Association Dangerous Goods Regulations. 2. Meet the requirements for the US Department of Transport Association Dangerous Goods Regulations. 2. Meet the requirements for the US Department of Transportation listed in 49 CFR 173.185. 3. The transport of primary lithium batteries is prohibited aboard passenger aircraft. Refer to the Federal Register December 15, 2004 (Hazardous Materials; Prohibited on the Transportation of Primary Lithium Batteries and Cells Aboard Passenger Aircraft; Final Rule)

Lithium batteries shipped as "Lithium batteries", "Lithium batteries packed with equipment", or "Lithium batteries contained in equipment" may not be classified as "Dangerous Goods" when shipped in accordance with "special provision A45 of IATA-DGR" or "special provision 188 of IMO-IMDG Code"

DOT

NOT REGULATED



Proper Shipping Name Hazard Class Emergency Response Guide Number	NON-REGULATED N/A 147
TDG	Not regulated
MEX	Not regulated
ICAO	Not regulated
IATA Proper Shipping Name Hazard Class	Not regulated NON REGULATED N/A
IMDG/IMO Hazard Class EmS-No.	Not regulated N/A F-A, S-I
RID	Not regulated
ADR	Not regulated
<u>ADN</u>	Not regulated

15. REGULATORY INFORMATION

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

International Regulations

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements Not applicable

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical



or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS No.	Weight-%	SARA 313 - Threshold Values %
Lithium Cobalt Oxide (CoLiO2) - 12190-79-3	12190-79-3	42.28	0.1
Aluminum foil - 7429-90-5	7429-90-5	9.68	1.0
Copper - 7440-50-8	7440-50-8	8.6	1.0
Nickel - 7440-02-0	7440-02-0	0.45	0.1

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Copper 7440-50-8		X	Х	
Nickel 7440-02-0		Х	Х	

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Aluminum foil 7429-90-5			
Copper 7440-50-8	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Nickel 7440-02-0	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65		
Nickel - 7440-02-0	carcinogen, 10/1/1989 (metallic)		
	i i		

U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusett	Pennsylvania	Rhode Island	Illinois
Lithium Cobalt Oxide (CoLiO2) 12190-79-3	Х		Х	Х	Х
Aluminum foil 7429-90-5	Х	X	Х	Х	
Copper 7440-50-8	Х	X	Х	Х	Х
Phosphate(1-), hexafluoro-, lithium	Х				



21324-40-3					
Nickel	Х	Х	Х	Х	Х
7440-02-0					

16. OTHER INFORMATION					
<u>NFPA</u>	Health hazards 1	Flammability 0	Instability 0	Physical and Chemical Properties -	
<u>HMIS</u>	Health hazards 0	Flammability 0	Physical hazards 0	Personal Protection X	
Prepared By	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501				
Revision Date	04-Mar-2019				
Revision Note	No information available				

Disclaimer

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

End of Safety Data Sheet