

PRODUCT AND COMP					
	PANY II	ENTIFICATION			
Product name		: Comet Ag-Cu-Zn-Sn			
Trade name		CoMet 5507SIU, Braze 4576SIU, BrazeTec Co	: BrazeTec CoMet 5600U, BrazeTec CoMet 5507U, BrazeTec CoMet 5507SIU, BrazeTec CoMet 4576U, BrazeTec CoMet 4576SIU, BrazeTec CoMet 4076U, BrazeTec CoMet 3476U, BrazeTec CoMet 3476SIU, BrazeTec CoMet 3076U, BrazeTec		
Product code		: 30000001219			
Manufacturer or sup	oplier's	details			
Company		: SAXONIA Technical M	laterials GmbH		
Address		: Rodenbacher Chausse 63457 Hanau Germany	эе 4		
Telephone		: +49 6181 59-5305			
E-mail address		: info.ipds@umicore.cor	n		
<u>Poison Center</u> Telephone		: 09646 (NATIONAL CAI	LLERS)		
Hours of operation		: 8:00-22:00, SATURDA	Y-FRIDAY		
<u>Supplier</u> Emergency telephone ber	e num-	Africa (Non-Arabic spea For transport in the Mid speaking Africa: +32 3 For transport in the US/	A and Canada: 1-877 986 4267 and the Pacific (China excluded): +65 62		
Hours of operation		: This telephone number per week.	is available 24 hours per day, 7 days		

2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Inhalation)	:	Category 5
Serious eye damage/eye irri-	:	Category 2A



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tation				
lation				
Reproductive toxicit	y	:	Category 2	
GHS label element	S			
Hazard pictograms		:		
Signal word		:	Warning	
Hazard statements		:	H319 Causes serious eye irrita H333 May be harmful if inhaled H361 Suspected of damaging	d.
Precautionary statements		·	Prevention: P201 Obtain special instruction P202 Do not handle until all sa and understood. P264 Wash skin thoroughly aff P280 Wear protective gloves/ tion/ face protection.	fety precautions have been i er handling.
			Response: P304 + P312 IF INHALED: Ca you feel unwell. P305 + P351 + P338 IF IN EY for several minutes. Remove of easy to do. Continue rinsing. P308 + P313 IF exposed or co attention. P337 + P313 If eye irritation per tention.	ES: Rinse cautiously with wa ontact lenses, if present and ncerned: Get medical advice
			Storage: P405 Store locked up.	
			Disposal:	
			P501 Dispose of contents/ con disposal plant.	tainer to an approved waste
	ch do n	ot res	ult in classification	
None known.				

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (%
		w/w)



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Potassium tetrafluorob	orate			14075-53-7 12045-78-2		<= 90
	boron potasium oxide(b4k2o7), tetrahydrate					<= 50
potassium metaborate	potassium metaborate					<= 25
4. FIRST AID MEASURES						
General advice		:	Move out of dang Show this safety Do not leave the	data sheet to th		n attendance.
If inhaled		:	Move to fresh air Consult a physic If unconscious, p attention immedi	ian after signific lace in recovery		
In case of skin contact		:	If on clothes, rem	nove clothes.		
In case of eye contact		:	Remove contact In the case of co of water and see Protect unharme Keep eye wide o If eye irritation pe	ntact with eyes, k medical advic d eye. pen while rinsin	e. g.	ediately with plenty
If swallowed		:	Induce vomiting Keep respiratory Do not give milk Never give anyth If symptoms pers Take victim imme	tract clear. or alcoholic bev ing by mouth to sist, call a physic	erages. an uncons cian.	
Most important sympto and effects, both acute delayed		:	Inhalation may p Shortness of bre Asthma Eye contact Excessive lachry	ath	wing symp	toms:
5. FIREFIGHTING MEASU	RES					
Suitable extinguishing	media	:	Use extinguishin cumstances and			ppriate to local cir- ent.
Unsuitable extinguishir media	ng	:	High volume wat	er jet		
Specific hazards during fighting	g fire-	:	Do not allow run- courses.	off from fire figh	nting to ent	er drains or water
Hazardous combustior ucts	n prod-	:	Fluorine compou Boranes Boron oxides	nds		
Specific extinguishing	meth-	:	Collect contamin	ated fire extingu	uishing wat	er separately. This



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ods			must not be discharged into drains. Fire residues and contaminated fire be disposed of in accordance with I	extinguishing water must
Special protective e for firefighters	quipment	:	Wear self-contained breathing appaers essary.	aratus for firefighting if nec-
6. ACCIDENTAL RELEA	ASE MEAS	UR	ES	
Personal precaution tive equipment and gency procedures		:	Use personal protective equipment Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.	
Environmental preca	autions	:	Prevent product from entering drain Prevent further leakage or spillage If the product contaminates rivers a respective authorities.	if safe to do so.
Methods and materic containment and cle		:	Keep in suitable, closed containers	for disposal.
7. HANDLING AND STO	RAGE			
Advice on protection fire and explosion	n against	:	Avoid dust formation. Provide appropriate exhaust ventila is formed.	tion at places where dust
Advice on safe hand	dling	:	Avoid formation of respirable partic Do not breathe vapours/dust. Avoid exposure - obtain special ins Avoid contact with skin and eyes. For personal protection see section Smoking, eating and drinking shoul plication area. Provide sufficient air exchange and Dispose of rinse water in accordance regulations.	tructions before use. 8. d be prohibited in the ap- /or exhaust in work rooms.
Conditions for safe	storage	:	Keep container tightly closed in a d place. Observe label precautions. Electrical installations / working ma the technological safety standards. To maintain product quality, do not light.	terials must comply with
Further information age stability	on stor-	:	Keep in a dry place.	



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EXPOSURE CONTROLS/PI	ERSONAL PROTECTION
Components with workp	lace control parameters
Engineering measures	: Handle only in a place equipped with local exhaust (or other appropriate exhaust).
Personal protective equi	pment
Respiratory protection	 In the case of dust or aerosol formation use respirator with a approved filter. When workers are facing concentrations above the exposur limit they must use appropriate certified respirators.
Hand protection Material Break through time Glove thickness	 Nitrile rubber > 240 min > 0.2 mm
Eye protection	: Safety glasses with side-shields conforming to EN166
Skin and body protection	: Dust impervious protective suit
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Colour	:	white
Odour	:	odourless
рН	:	not determined
Melting point/range	:	325 - 450 °C
Boiling point/boiling range	:	not determined
Flammability (solid, gas)	:	The product is not flammable.
Vapour pressure	:	not determined
Density	:	1.45 - 1.9 g/cm3
Solubility(ies) Water solubility	:	not determined
Auto-ignition temperature	:	not determined



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	3D3 Number: 30000001219 Nevision Date: 04.03.2010
0. STABILITY AND REACTIVI	ГҮ
Reactivity	: Stable
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous rea tions	c- : No decomposition if stored and applied as directed.
Conditions to avoid	: None known.
Incompatible materials	: Acids Oxidizing agents
Hazardous decomposition products	: No decomposition if stored normally.
1. TOXICOLOGICAL INFORM	ATION
Acute toxicity	
<u>Product:</u> Acute oral toxicity	: Remarks: No data available
Acute inhalation toxicity	: Remarks: No data available
Acute dermal toxicity	: Remarks: No data available
Components:	
Potassium tetrafluorobora	ate:
Acute oral toxicity	: LD50 (Rat): 5,854 mg/kg
Acute inhalation toxicity	 LC50 (Rat, male and female): 5.3 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 436 GLP: yes
Acute dermal toxicity	: Assessment: The substance or mixture has no acute dermal toxicity Remarks: data waiving in REACH dossier
boron potasium oxide(b4k	(207), tetrahydrate:
Acute oral toxicity	: Assessment: No data available
Acute inhalation toxicity	:
	Remarks: No data available
Acute dermal toxicity	:



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			Demosive: No data available	
			Remarks: No data available	
potassium metabo	rate:			
Acute oral toxicity		:	Assessment: No data available	
Acute inhalation toxi	city	:	Assessment: No data available	
Acute dermal toxicity	y	:	Assessment: No data available	
Skin corrosion/irrit	ation			
Product:				
Remarks: No data a	vailable			
Components:				
Potassium tetraflue	orobora	te:		
Species: Rabbit Exposure time: 4 h Method: OECD Test Result: No skin irrita GLP: yes		ne 4	04	
Serious eye damaç	je/eye ir	rita	tion	
Product:				
Remarks: No data a	vailable			
Components:				
Potassium tetraflue	orobora	te:		
Species: Rabbit			05	
Method: OECD Test Result: No eye irritat		ne 4	-05	
GLP: yes				
potassium metabo	rate:			
Result: Eye irritation				
Respiratory or skir	n sensiti	sati	on	
Product:				
Remarks: No data a	vailable			
Germ cell mutagen	icity			
Product:				
Genotoxicity in vitro			Remarks: No data available	



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Carcinogenicity			
Product:			
Remarks: No data availab	le		
Reproductive toxicity			
Product:			
Effects on fertility		: Remarks: No data available	
Components:			
boron potasium oxide(b	4k2o7	7), tetrahydrate:	
Reproductive toxicity - As sessment		: Some evidence of adverse effe animal experiments.	ects on development, based on
potassium metaborate:			
Reproductive toxicity - As sessment		: Suspected human reproductive	toxicant
STOT - single exposure			
Product:			
Remarks: No data availab	le		
STOT - repeated exposu	re		
Product:			
Remarks: No data availab	le		
Further information			
Product:			
Remarks: No data availab	le		
2. ECOLOGICAL INFORMA			
Ecotoxicity			
Components:			
Potassium tetrafluorobo	rate.		
Toxicity to fish		: LC50 (Fish): 760 mg/l Exposure time: 96 h	
boron potasium oxide(b	4k2o7	7), tetrahydrate:	
Ecotoxicology Assessm	ent		
Acute aquatic toxicity		: No data available	
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potassium metabora	ate:		
Ecotoxicology Asse	ssment		
Acute aquatic toxicity		: No data available	
Persistence and deg	gradabil	ity	
No data available	-		
Bioaccumulative po	tential		
No data available			
Mobility in soil			
No data available			
Other adverse effect	ts		
Product:			
Additional ecological mation	infor-	: No data available	

13. DISPOSAL CONSIDERATIONS

Disposal methods	
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Waste from residues	:	Do not dispose of waste into sewer. Dispose of in accordance with the European Directives on waste and hazardous waste. In accordance with local and national regulations. Do not contaminate ponds, waterways or ditches with chemi- cal or used container. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Send to a licensed waste management company.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good



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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

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Special precautions for user

Not applicable

15. REGULATORY INFORMATION

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

The components of this product are reported in the following inventories:CH INV: Not in compliance with the inventory				
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL.		
AICS	:	On the inventory, or in compliance with the inventory		
NZIoC	:	Not in compliance with the inventory		
ENCS	:	Not in compliance with the inventory		
ISHL	:	Not in compliance with the inventory		
KECI	:	Not in compliance with the inventory		
PICCS	:	Not in compliance with the inventory		
IECSC	:	On the inventory, or in compliance with the inventory		
TCSI	:	On the inventory, or in compliance with the inventory		
TSCA	:	Not On TSCA Inventory		

16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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 DanIR



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gerous 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; Nch - Chilean Norm; NO(A)EC -No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS -Workplace Hazardous Materials Information System

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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