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

1 1	Product identifier		
		:	OKS 521
1.2	Relevant identified uses of the	s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture		Lubricant spray
	Recommended restrictions : on use		Restricted to professional users.
1.3	Details of the supplier of the sa	afe	ety data sheet
	Company :	:	OKS Spezialschmierstoffe GmbH Ganghoferstr. 47 D-82216 Maisach-Gernlinden Tel.: +49 8142 3051 500 Fax.: +49 8142 3051 599 info@oks-germany.com
	E-mail address of person : responsible for the SDS	:	mcm@oks-germany.com Material Compliance Management
	National contact :		
1.4	Emergency telephone number		
	Emergency telephone num- : ber		+49 8142 3051 517 Warszawa: +48 22 619 66 54

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)				
Aerosols, Category 1	H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated.			
Skin irritation, Category 2	H315: Causes skin irritation.			
Eye irritation, Category 2	H319: Causes serious eye irritation.			
Specific target organ toxicity - single ex- posure, Category 3, Central nervous	H336: May cause drowsiness or dizziness.			



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fects.

system

Aspiration hazard, Category 1

H304: May be fatal if swallowed and enters airways.

H412: Harmful to aquatic life with long lasting ef-

Long-term (chronic) aquatic hazard, Category 3

2.2 Label elements

Labelling (REGULATION (E Hazard pictograms	C) No 1272/2008)	
Signal word	: Danger	
Hazard statements	: H222 H229 H304 H315 H319 H336 H412	Extremely flammable aerosol. Pressurised container: May burst if heated. May be fatal if swallowed and enters air- ways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting ef- fects.
Precautionary statements	: Prevention: P210 P211 P251 Response: P301 + P310	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
	P331 Storage: P410 + P412	Do NOT induce vomiting. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Hazardous components which must be listed on the label:

n-butyl acetate

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane



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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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature

Active substance with propellant 5 Solvent Molybdenum disulfide graphite

Components				
Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	specific concen- tration limit M-Factor Notes Acute toxicity estimate	Concentration (% w/w)
n-butyl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29- XXXX	Flam. Liq.3; H226 STOT SE3; H336; EUH066		>= 20 - < 30
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	921-024-6 01-2119475514-35- XXXX	Flam. Liq.2; H225 Skin Irrit.2; H315 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411		>= 20 - < 25
1-Butanol, titani- um(4+) salt, homopol- ymer	9022-96-2	Eye Irrit.2; H319		>= 1 - < 10
isobutane	75-28-5	Flam. Gas1A;		>= 1 - < 10

Components



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		200-857-2 601-004-00-0 01-2119485395-27- XXXX	H220 Press. GasCompr. Gas; H280	Note U (table 3.1), Note C	
		place exposure limit :			
molybdenu phide	um disul-	1317-33-5 215-263-9	Not classified		>= 10 - < 20
butane		106-97-8 203-448-7 601-004-00-0	Flam. Gas1A; H220 Press. GasCompr. Gas; H280	Note U (table 3.1), Note C	>= 10 - < 20
dimethyl e	ther	115-10-6 204-065-8 603-019-00-8 01-2119472128-37- XXXX	Flam. Gas1A; H220 Press. GasLique- fied gas; H280	Note U (table 3.1)	>= 10 - < 20
propane		74-98-6 200-827-9 601-003-00-5 01-2119486944-21- XXXX	Flam. Gas1A; H220 Press. GasCompr. Gas; H280	Note U (table 3.1)	>= 1 - < 10
Graphite		7782-42-5 231-955-3	Not classified		>= 1 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled

 Call a physician or poison control centre immediately. Remove person to fresh air. If signs/symptoms continue, get medical attention. Keep patient warm and at rest. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear. If breathing is irregular or stopped, administer artificial respira-



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		tio	on.	
In cas	se of skin contact	G p W T	ake off all contaminated clothing et medical attention immediately ersists. /ash clothing before reuse. horoughly clean shoes before re /ash off immediately with plenty	y if irritation develops and euse.
In cas	se of eye contact	fc	inse immediately with plenty of v or at least 10 minutes. eek medical advice.	water, also under the eyelids
lf swa	allowed	lf K D R A	ove the victim to fresh air. accidentally swallowed obtain ir eep respiratory tract clear. o NOT induce vomiting. inse mouth with water. spiration hazard if swallowed - c amage.	
.2 Most i	mportant symptom	s and effe	cts, both acute and delaved	
I.2 Most i Symp		: Ir U D H N T S	ects, both acute and delayed halation may provoke the follow nconsciousness izziness rowsiness eadache ausea iredness kin contact may provoke the follo rythema	
		: Ir U D H N T S E	halation may provoke the follow nconsciousness izziness rowsiness eadache ausea iredness kin contact may provoke the follo	owing symptoms:

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	ABC powder
Unsuitable extinguishing media	:	High volume water jet



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5.2 Special hazards arising from the substance or mixture

Specific hazards during fire- fighting	:	Fire Hazard Do not let product enter drains. Contains gas under pressure; may explode if heated. Beware of vapours accumulating to form explosive concentra- tions. Vapours can accumulate in low areas.
Hazardous combustion prod- ucts	:	Carbon oxides Sulphur oxides Metal oxides
5.3 Advice for firefighters		
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposi- tion products may be a hazard to health.
Further information	:	Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Cool containers/tanks with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	 Evacuate personnel to safe areas. Ensure adequate ventilation. Remove all sources of ignition. Do not breathe vapours or spray mist. Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Refer to protective measures listed in sections 7 and 8. Only qualified personnel equipped with suitable protective equipment may intervene
	equipment may intervene.

6.2 Environmental precautions

Environmental precautions	:	Do not allow contact with soil, surface or ground water. 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 containment and cleaning up

Methods for cleaning up	:	Contain spillage, and then collect with non-combustible ab- sorbent material, (e.g. sand, earth, diatomaceous earth, ver- miculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal. Non-sparking tools should be used.
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6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

In recautions for sale nandling	
Advice on safe handling :	Do not use in areas without adequate ventilation. Do not breathe vapours or spray mist. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. For personal protection see section 8. Keep away from fire, sparks and heated surfaces. Smoking, eating and drinking should be prohibited in the ap- plication area. Wash hands and face before breaks and immediately after handling the product. Do not get in eyes or mouth or on skin. Do not get on skin or clothing. Do not ingest. Do not use sparking tools. These safety instructions also apply to empty packaging which may still contain product residues. Pressurized container: protect from sunlight and do not ex- pose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.
Hygiene measures :	Wash face, hands and any exposed skin thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	: BEWARE: Aerosol is pressurized. Keep away from dir exposure and temperatures over 50 °C. Do not open b or throw into fire even after use. Do not spray on flame red-hot objects. Store in accordance with the particula tional regulations.	
7.3 Specific end use(s)		
Specific use(s)	:	Specific instructions for handling, not required.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits



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Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
n-butyl acetate	123-86-4	NDS	240 mg/m3	PL OEL
				(2018-07-07)
		NDSch	720 mg/m3	PL OEL
				(2018-07-07)
		STEL	150 ppm	2019/1831/E
			723 mg/m3	U
				(2019-10-31)
	Further infor	mation: Indicative		
		TWA	50 ppm	2019/1831/E
			241 mg/m3	U
				(2019-10-31)
	Further infor	mation: Indicative		
molybdenum di-	1317-33-5	NDS	4 mg/m3	PL OEL
sulphide			(Molybdenum)	(2018-07-07)
		NDSch	10 mg/m3	PL OEL
			(Molybdenum)	(2018-07-07)
butane	106-97-8	NDS	1.900 mg/m3	PL OEL
				(2018-07-07)
		NDSch	3.000 mg/m3	PL OEL
				(2018-07-07)
dimethyl ether	115-10-6	TWA	1.000 ppm	2000/39/EC
			1.920 mg/m3	(2000-06-16)
	Further infor	mation: Indicative		
		NDS	1.000 mg/m3	PL OEL
				(2018-07-07)
1-Butanol, titani-	9022-96-2	NDS	10 mg/m3	PL OEL
um(4+) salt, ho-			(Titanium)	(2018-07-07)
mopolymer				
		NDSch	30 mg/m3	PL OEL
			(Titanium)	(2018-07-07)
propane	74-98-6	NDS	1.800 mg/m3	PL OEL
				(2018-07-07)
Graphite	7782-42-5	NDS (inhalable	4 mg/m3	PL OEL
		fraction)		(2018-07-07)
		NDS (respirable	1 mg/m3	PL OEL
		fraction)		(2018-07-07)

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
n-butyl acetate	Workers	Inhalation	Long-term systemic effects	300 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	600 mg/m3
	Workers	Dermal	Long-term local ef- fects	11 mg/cm2
Hydrocarbons, C6- C7, n-alkanes, isoal- kanes, cyclics, <5% n-hexane	Workers	Skin contact	Long-term systemic effects	773 mg/kg bw/day



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	Workers	Inhalation	Long-term systemic effects	2035 mg/m3
dimethyl ether	Workers	Inhalation	Long-term exposure	1894 mg/m3
Graphite	Workers	Inhalation	Long-term local ef- fects	1,2 mg/m3

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

Substance name	Environmental Compartment	Value
n-butyl acetate	Fresh water	0,18 mg/l
	Marine water	0,018 mg/l
	Microbiological Activity in Sewage Treat- ment Systems	35,6 mg/l
	Fresh water sediment	0,981 mg/kg
	Marine sediment	0,0981 mg/kg
	Soil	0,09 mg/kg
dimethyl ether	Fresh water	0,155 mg/l
	Marine water	0,016 mg/l
	Sewage treatment plant	160 mg/l
	Fresh water sediment	0,681 mg/kg
	Marine sediment	0,069 mg/kg
	Soil	0,045 mg/kg

8.2 Exposure controls

Engineering measures

Use only in an area equipped with explosion proof exhaust ventilation. Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

Eye protection	:	Safety glasses with side-shields
Hand protection Material Break through time Protective index	:	butyl-rubber > 10 min Class 1
Remarks	:	Wear protective gloves. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. The selected protective gloves have to satisfy the specifica- tions of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
Skin and body protection	:	Choose body protection in relation to its type, to the concen- tration and amount of dangerous substances, and to the spe- cific work-place.
Respiratory protection	:	Use respiratory protection unless adequate local exhaust ven- tilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Short term only



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	ter type ctive measures	 Filter type A-P The type of protective equipment r to the concentration and amount o at the specific workplace. 	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	aerosol
Colour	:	black
Odour	:	characteristic
Odour Threshold	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	-161,0 °C (1.013 hPa)
Flammability (solid, gas)	:	Extremely flammable aerosol.
Upper explosion limit / Upper flammability limit	:	18,6 %(V)
Lower explosion limit / Lower flammability limit	:	1,1 %(V)
Flash point	:	-60 °C Method: Abel-Pensky
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	Not applicable substance/mixture is non-soluble (in water)
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	< 20,5 mm2/s (40 °C)
Solubility(ies) Water solubility	:	insoluble



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So	olubility in other solvent	ts :	No data available	
	tion coefficient: n- nol/water	:	No data available	
Vapo	our pressure	:	4.600 hPa (20 °C)	
Relat	ive density	:	0,79 (20 °C) Reference substance: Water The value is calculated	
Dens	ity	:	0,79 g/cm3 (20 °C)	
Bulk	density	:	No data available	
Relat	ive vapour density	:	No data available	
9.2 Other	information			
Explo	osives	:	Not explosive	
Oxidi	zing properties	:	No data available	
Self-i	gnition	:	No data available	
Meta	l corrosion rate	:	Not corrosive to metals	
Evap	oration rate	:	No data available	
Subli	mation point	:	No data available	

SECTION 10: Stability and reactivity

10.1 Reactivity No hazards to be specially m	entioned.
10.2 Chemical stability Stable under normal conditio	ns.
10.3 Possibility of hazardous re	actions
Hazardous reactions	: No dangerous reaction known under conditions of normal use.
10.4 Conditions to avoid	
Conditions to avoid	: Heat, flames and sparks. Strong sunlight for prolonged periods. Risk of receptacle bursting.



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10.5 Incompatible materials

Acute toxicity

Materials to avoid	:	Oxidizing agents
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10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

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

Acute toxicity		
Product:		
Acute oral toxicity	:	Remarks: Effects due to ingestion may include:
		Symptoms: Central nervous system depression
Acute inhalation toxicity	:	Remarks: Respiration of solvent vapour may cause dizziness.
		Symptoms: Inhalation may provoke the following symptoms:, Respiratory disorder, Dizziness, Drowsiness, Vomiting, Fa- tigue, Vertigo, Central nervous system depression
Acute dermal toxicity	:	Symptoms: Redness, Local irritation
Components:		
n-butyl acetate:		
Acute oral toxicity	:	LD50 (Rat): 10.768 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 21 mg/l Exposure time: 4 h Test atmosphere: vapour Method: OECD Test Guideline 403 GLP: yes Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	:	LD50 (Rabbit): > 17.600 mg/kg
Hydrocarbons, C6-C7, n-alk	ane	es, isoalkanes, cyclics, <5% n-hexane:
Acute oral toxicity		LD50 (Rat): > 5.840 mg/kg Assessment: The substance or mixture has no acute oral tox- icity
Acute inhalation toxicity	:	LC50 (Rat): > 25,2 mg/l Exposure time: 4 h Test atmosphere: vapour Assessment: The substance or mixture has no acute inhala-



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		tion toxicity	
Acute	e dermal toxicity	: LD50 (Rat): > 2,8 g/kg Assessment: The substan toxicity	ce or mixture has no acute derm
isobu	utane:		
Acute	e inhalation toxicity	: LC50 (Rat): 658 mg/l Exposure time: 4 h Test atmosphere: gas	
moly	bdenum disulphide		
Acute	e oral toxicity	: LD50 (Rat): > 5.000 mg/kg	9
Acute	e dermal toxicity	: LD50 (Rat): > 16.000 mg/ł	<g< td=""></g<>
buta	ne:		
Acute	e inhalation toxicity	: LC50 (Rat): 658 mg/l Exposure time: 4 h Test atmosphere: gas	
dime	thyl ether:		
Acute	e inhalation toxicity	: LC50 (Rat): 309 mg/l Exposure time: 4 h Test atmosphere: gas	
Grap	hite:		
Acute	e oral toxicity	: LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guide Assessment: The substan icity	
Skin	corrosion/irritation		
<u>Prod</u>			
Rema	arks	: Irritating to skin.	
<u>Com</u>	ponents:		
n-bu	tyl acetate:		
Spec		: Rabbit	
Asse: Meth	ssment od	: No skin irritation : OECD Test Guideline 404	
Resu			ause skin dryness or cracking.

: Rabbit

Species



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Asses Metho Resu		 Irritating to skin. OECD Test Guideline 404 Irritating to skin. 	
moly	bdenum disulphide	:	
	ssment	: No skin irritation	
Resu	lt	: No skin irritation	
dime	thyl ether:		
	ssment	: No skin irritation	
Resu	lt	: No skin irritation	
Serio	ous eye damage/eye	irritation	
Prod			
Resu	lt	: Eye irritation	
Rema	arks	: Irritating to eyes.	
Com	ponents:		
	yl acetate:		
Speci		: Rabbit	
Asses	ssment	: No eye irritation : OECD Test Guideline 405	
Resu		: No eye irritation	
GLP	n.	: yes	
Hydro	ocarbons, C6-C7, n	-alkanes, isoalkanes, cyclics, <5% n-hexa	ane:
Hydro Speci		-alkanes, isoalkanes, cyclics, <5% n-hexa : Rabbit	ane:
Speci			ane:
Speci	ies ssment	: Rabbit	ane:
Speci Asses Resu	ies ssment	RabbitNo eye irritationNo eye irritation	ane:
Speci Asses Resu	ies ssment It tanol, titanium(4+) s	RabbitNo eye irritationNo eye irritation	ane:
Speci Asses Resu 1-But Resu	ies ssment It tanol, titanium(4+) s	 Rabbit No eye irritation No eye irritation Salt, homopolymer: Eye irritation 	ane:
Speci Asses Resu 1-But Resu moly	ies ssment It t anol, titanium(4+) s It	 Rabbit No eye irritation No eye irritation Salt, homopolymer: Eye irritation 	ane:
Speci Asses Resu 1-But Resu moly	ies ssment It tanol, titanium(4+) s It bdenum disulphide ssment	 Rabbit No eye irritation No eye irritation salt, homopolymer: Eye irritation 	ane:
Speci Asses Resu 1-But Resu moly Asses Resu	ies ssment It tanol, titanium(4+) s It bdenum disulphide ssment	 Rabbit No eye irritation No eye irritation salt, homopolymer: Eye irritation : No eye irritation 	ane:
Speci Asses Result 1-But Result Asses Result dime	ies ssment It tanol, titanium(4+) s It bdenum disulphide ssment It	 Rabbit No eye irritation No eye irritation salt, homopolymer: Eye irritation : No eye irritation 	ane:



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Resp	piratory or skin sen	sitisatio	on	
Prod	luct:			
Rem	arks	:	This information is not available.	
<u>Com</u>	ponents:			
n-bu	tyl acetate:			
Test	Туре	:	Maximisation Test	
	sure routes	:	Dermal	
Spec		:	Guinea pig	
Asse Meth	ssment	:	Does not cause skin sensitisation. OECD Test Guideline 406	
Resu		:	Does not cause skin sensitisation.	
Hvdr	ocarbons. C6-C7. r	-alkane	es, isoalkanes, cyclics, <5% n-hexa	ane:
	Туре	:	Maximisation Test	
	sure routes	:	Dermal	
Spec		:	Guinea pig	
	ssment	:	Does not cause skin sensitisation.	
Meth		:	OECD Test Guideline 406	
Resu	llt	:	Did not cause sensitisation on labo	ratory animals.
-	bdenum disulphide	e :		
	ssment	:	Does not cause skin sensitisation.	
Resu	llt	:	Does not cause skin sensitisation.	
	ethyl ether:			
	ssment	:	Does not cause skin sensitisation.	
Resu	llt	:	Does not cause skin sensitisation.	
Gern	n cell mutagenicity			
Prod	luct:			
Geno	otoxicity in vitro	:	Remarks: No data available	
Geno	otoxicity in vivo	:	Remarks: No data available	
<u>Com</u>	ponents:			
n-bu	tyl acetate:			
	otoxicity in vitro	:	Test Type: Ames test	
	-		Test system: Salmonella typhimuriu	
			Method: OECD Test Guideline 471	
			Result: negative	
			Test Type: Chromosome aberratior	n test in vitro
			Test system: Chinese hamster cells	S
			Method: OECD Test Guideline 473	



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				Result: negative	
	Genoto	xicity in vivo	:	Species: Mouse Application Route: Oral Method: OECD Test Guideline 474 Result: negative	
	Germ c sessme	ell mutagenicity- As- ent	:	Tests on bacterial or mammalian cell cult mutagenic effects., Animal testing did not effects.	
	Hydroc	arbons, C6-C7, n-al	kane	s, isoalkanes, cyclics, <5% n-hexane:	
	Genoto	xicity in vitro	:	Test Type: Chromosome aberration test i Test system: Rodent cell line Method: OECD Test Guideline 473 Result: negative	n vitro
	molybo	denum disulphide:			
	Germ c sessme	• •	:	Animal testing did not show any mutagen	ic effects.
	dimeth	yl ether:			
	Genoto	xicity in vitro	:	Test Type: Ames test Method: OECD Test Guideline 471 Result: negative	
	Genoto	xicity in vivo	:	Species: Drosophila melanogaster (vineg Application Route: inhalation (gas) Method: OECD Test Guideline 477 Result: negative	ar fly)
	Carcine	ogenicity			
	Produc				
	Remark	<s< td=""><td>:</td><td>No data available</td><td></td></s<>	:	No data available	
	Compo	onents:			
	n-butyl	acetate:			
	Carcinc ment	ogenicity - Assess-	:	Not classifiable as a human carcinogen.	
	-	denum disulphide: ogenicity - Assess-	:	No evidence of carcinogenicity in animal	studies.
		yl ether:			
	Species	6	:	Rat	





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ersion 2	Revision Date: 18.07.2022		ast issue: 08.08.2018 rst issue: 09.07.2016	Print Date: 18.07.2022
Application Route Exposure time Method Result		: 2 Ye : 47 r : OE		
Repro	ductive toxicity			
Produ	ict:			
Effects	s on fertility	: Rer	narks: No data available	
Effects ment	s on foetal develop-	: Rer	narks: No data available	
<u>Comp</u>	onents:			
n-buty	/l acetate:			
Effects	s on fertility	Spe App Ger Ger Ger Res	t Type: Two-generation stud cies: Rat lication Route: inhalation (va neral Toxicity - Parent: NOAE neral Toxicity F1: NOAEC: 75 neral Toxicity F2: NOAEC: 75 hod: OECD Test Guideline 4 ult: Embryotoxic effects and ng were detected.	apour) EC: 750 mg/l 50 mg/l 50 mg/l I16
Repro	ductive toxicity - As-	: - Fe	rtility -	
sessm	sessment	or o	evidence of adverse effects on development, based on ar ratogenicity -	on sexual function and fertility, himal experiments.
		No	oxicity to reproduction	
	hyl ether: ductive toxicity - As- ent		rtility - nal testing did not show any	effects on fertility.
STOT	- single exposure			
<u>Comp</u>	onents:			
Expos	/I acetate: ure routes t Organs sment	: Cer : The	alation tral nervous system substance or mixture is clas cant, single exposure, catego	ssified as specific target organ ory 3 with narcotic effects.

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:



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Asses	sment	:	May cause drowsiness or dizzines	S.
molyb Asses	odenum disulphide: sment	:	The substance or mixture is not cla organ toxicant, single exposure.	assified as specific target
STOT	- repeated exposu	e		
<u>Comp</u>	onents:			
-	yl acetate: sment	:	The substance or mixture is not cla organ toxicant, repeated exposure.	
Hydro	ocarbons, C6-C7, n-	alkane	es, isoalkanes, cyclics, <5% n-hex	ane:
	ure routes sment	:	inhalation (vapour) No significant health effects observ tions of 1 mg/l/6h/d or less.	ved in animals at concentra
-	odenum disulphide:	1		
Asses	sment	:	The substance or mixture is not cla organ toxicant, repeated exposure.	
Repea	ated dose toxicity			
<u>Produ</u>	<u>ict:</u>			
Rema	rks	:	This information is not available.	
<u>Comp</u>	onents:			
n-buty	yl acetate:			
Specie		:	Rat	
NOAE Applic	L ation Route	:	125 mg/kg Oral	
Aspira	ation toxicity			
Produ	ict:			
	e fatal if swallowed a	and ent	ers airways.	
May b	e fatal if swallowed a	and ent	ers airways.	
	onents:			

n-butyl acetate:

No aspiration toxicity classification



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Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:

May be fatal if swallowed and enters airways.

dimethyl ether:

No aspiration toxicity classification

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Product:		
Assessment	:	The substance/mixture does not contain components consid- ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Further information		
Product:		
Remarks	:	Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.
Components:		
molybdenum disulphide:		
Remarks	:	Information given is based on data on the components and the toxicology of similar products.

SECTION 12: Ecological information

12.1 Toxicity

Product:		
Toxicity to fish	:	Remarks: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available
Toxicity to algae/aquatic plants	:	Remarks: No data available
Toxicity to microorganisms	:	Remarks: No data available



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<u>c</u>	Compo	onents:			
	-	l acetate: v to fish	:	LC50 (Pimephales promelas (fathead Exposure time: 96 h Test Type: flow-through test Method: OECD Test Guideline 203	minnow)): 18 mg/l
		v to daphnia and other invertebrates	:	EC50 (Daphnia (water flea)): 44 mg/l Exposure time: 48 h Test Type: static test	
	Foxicity plants	v to algae/aquatic	:	EC50 (Desmodesmus subspicatus (g Exposure time: 72 h Test Type: static test	reen algae)): 397 mg/l
Т	Foxicity	to microorganisms	:	EC50 (Tetrahymena pyriformis): 356 Exposure time: 40 h Test Type: Growth inhibition	mg/l
а		v to daphnia and other invertebrates (Chron- ty)		NOEC: 23 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: Reproduction Test GLP: yes)
	-	carbons, C6-C7, n-all / to fish	kane: :	s, isoalkanes, cyclics, <5% n-hexan LC50 (Oncorhynchus mykiss (rainbov Exposure time: 96 h Method: OECD Test Guideline 203 GLP: yes	
		v to daphnia and other invertebrates	:	EL50 (Daphnia magna (Water flea)): Exposure time: 48 h Method: OECD Test Guideline 202 GLP: yes	3 mg/l
	Foxicity plants	∕ to algae/aquatic	:	EbC50 (Pseudokirchneriella subcapit mg/l Exposure time: 72 h Method: OECD Test Guideline 201	ata (green algae)): 26
E	Ecotox	icology Assessment	t		
		aquatic toxicity	:	Toxic to aquatic life.	
C	Chronic	c aquatic toxicity	:	Toxic to aquatic life with long lasting e	effects.
	-	denum disulphide: v to fish	:	LC50 (Pimephales promelas (fathead Exposure time: 96 h	minnow)): > 100 mg/l



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		y to daphnia and other invertebrates	• :	EC50 (Daphnia magna (Water flea)): Exposure time: 48 h	> 100 mg/l
	Toxicity plants	y to algae/aquatic	:	EC50 (Pseudokirchneriella subcapita mg/l Exposure time: 72 h	ta (green algae)): > 100
	dimeth	yl ether:			
		y to fish	:	LC50 (Poecilia reticulata (guppy)): > 4 Exposure time: 96 h Test Type: semi-static test	4.100 mg/l
		y to daphnia and other invertebrates	• :	EC50 (Daphnia magna (Water flea)): Exposure time: 48 h Test Type: static test	> 4.400 mg/l
	Toxicity plants	y to algae/aquatic	:	EC50 (green algae): 154,9 mg/l Exposure time: 96 h	
12.2	2 Persis	tence and degradabi	ility		
	Produc	<u>ct:</u>			
	Biodeg	radability	:	Remarks: No data available	
	Physico ity	o-chemical removabil-	:	Remarks: No data available	
	Compo	onents:			
	n-buty	l acetate:			
	Biodeg	radability	:	Test Type: Primary biodegradation	
				Result: rapidly biodegradable Biodegradation: 83 %	
				Exposure time: 28 d Method: OECD Test Guideline 301D	
	-		kane	s, isoalkanes, cyclics, <5% n-hexan	е:
	Biodeg	radability	:	Result: Readily biodegradable.	
	dimeth	yl ether:			
		radability	:	Test Type: aerobic Inoculum: activated sludge Result: Not readily biodegradable. Biodegradation: 5 % Exposure time: 28 d Method: OECD Test Guideline 301D	



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12.3 Bioa	ccumulative potential					
	Product: Bioaccumulation		 Remarks: This mixture contains no substance considue persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be persistent and very bioaccumulating (vPvB). 			
Com	ponents:					
n-but	yl acetate:					
	ion coefficient: n- ol/water	:	log Pow: 2,3 (25 °C) pH: 7 Method: OECD Test Guideline 117 GLP: yes			
isobu	itane:					
	Partition coefficient: n- octanol/water		log Pow: 2,88 Method: OECD Test Guideline 107			
butar	ne:					
	ion coefficient: n- ol/water	:	log Pow: 2,89 Method: OECD Test Guideline 107			
dime	thyl ether:					
	ion coefficient: n- ol/water	:	log Pow: 0,07 (25 °C)			
propa	ane:					
	ion coefficient: n- ol/water	:	log Pow: 2,36			
Grap	hite:					
	ion coefficient: n- ol/water	:	Remarks: No data available			
2.4 Mobi	lity in soil					
Prod	uct:					
Mobil	ity	:	Remarks: No data available			
	bution among environ- al compartments	:	Remarks: No data available			

12.5 Results of PBT and vPvB assessment

Product:



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	•				
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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 or 0.1% or higher.		
Com	ponents:				
n-bu	tyl acetate:				
Asse	ssment	:	Non-classified PBT substance. Non-cla	assified vPvB substance	
dime	thyl ether:				
Asse	ssment	:	Non-classified vPvB substance. Non-cl	assified PBT substance	
12.6 Ende	ocrine disrupting pro	pertie	S		
Prod	uct:				
Asse	ssment	:	The substance/mixture does not contai ered to have endocrine disrupting prop REACH Article 57(f) or Commission De (EU) 2017/2100 or Commission Regula levels of 0.1% or higher.	erties according to elegated regulation	
12.7 Othe	er adverse effects				
<u>Prod</u> Addit matic	ional ecological infor-	:	Harmful to aquatic life with long lasting	effects.	

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Product :	Do not dispose of with domestic refuse. Dispose of as hazardous waste in compliance with local and national regulations.
	Waste codes should be assigned by the user based on the application for which the product was used.
Contaminated packaging :	Packaging that is not properly emptied must be disposed of as the unused product. Offer empty spray cans to an established disposal company. Pressurized container: Do not pierce or burn, even after use.
	The following Waste Codes are only suggestions:
Waste Code :	unused product, packagings not completely emptied 16 05 04*, gases in pressure containers (including halons) containing hazardous substances



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SECTION 14: Transport information

14.1 UN number or ID number		
ADN	:	UN 1950
ADR	:	UN 1950
RID	:	UN 1950
IMDG	:	UN 1950
ΙΑΤΑ	:	UN 1950
14.2 UN proper shipping name		
ADN	:	AEROSOLS
ADR	:	AEROSOLS
RID	:	AEROSOLS
IMDG	:	AEROSOLS
ΙΑΤΑ	:	Aerosols, flammable
14.3 Transport hazard class(es)		
ADN	:	2
ADR	:	2
RID	:	2
IMDG	:	2.1
ΙΑΤΑ	:	2.1
14.4 Packing group		
ADN Packing group Classification Code Labels	:	Not assigned by regulation 5F 2.1
ADR Packing group Classification Code Labels Tunnel restriction code	:	Not assigned by regulation 5F 2.1 (D)
RID Packing group Classification Code Hazard Identification Number Labels IMDG	:	Not assigned by regulation 5F 23 2.1
Packing group	:	Not assigned by regulation



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Labe EmS	els Code	: 2.1 : F-D, S-U	
Pack aircra Pack	ing instruction (LQ)	 203 Y203 Not assigned by regulation Flammable Gas 	
Pack ger a Pack	A (Passenger) ting instruction (passen- tircraft) ting instruction (LQ) ting group tils	 203 Y203 Not assigned by regulation Flammable Gas 	
14.5 Envi	ironmental hazards		
ADN Envir	ronmentally hazardous	: no	
ADR Envii	ronmentally hazardous	: no	
RID Envii	ronmentally hazardous	: no	
IMD Marii	G ne pollutant	: no	
14.6 Spe	cial precautions for us		

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

Remarks

: 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 - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). (EU SVHC)	:	This product does not contain sub- stances of very high concern (Regu- lation (EC) No 1907/2006 (REACH), Article 57).
REACH - List of substances subject to authorisation (Annex XIV) (EU. REACH-Annex XIV)	:	Not applicable



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plete	Ilation (EC) No 1005/2 the ozone layer 1005/2009)	2009 on substances that	de- :	Not applicable
tants	Ilation (EU) 2019/102 (recast) POP)	1 on persistent organic p	ollu- :	Not applicable
ment of da		012 of the European Parl cerning the export and im		Not applicable
			: P5c	
			P2	
Parlia	ament and of the Cou r-accident hazards inv	18/EU of the European ncil on the control of /olving dangerous sub-	P3a	FLAMMABLE AEROSOLS
			18	Liquefied extremely flammable gases (including LPG) and natural gas
Volat	Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 75,08 %			

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

Act of 25 February 2011 on chemical substances and their mixtures (i.e. Journal of Laws of 2019, No. 0, item 1225)

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Official Journal of the European Union L 353 from 31.12.2008) with further adaptation to technical progress (ATP).

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).



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Ordinance of the Minister of Health of 10 August 2012 concerning the criteria and procedure of classification of chemical substances and their mixtures (consolidated text Dz. U. of 2015., pos. 208).

Ordinance of the Minister of Economy, Labour and Social Policy of 21st December 2005 concerning the basic requirements for personal protective equipment (Dz. U. Nr. 259, item 2173). Ordinance of the Minister of Labour and Social Policy of 12 June 2018 concerning the highest allowable concentrations and levels of the agents harmful for health in the workplace (Dz.U 2018 pos 1286, with later amendments).

Ordinance of the Minister of Health of 2nd February 2011 concerning tests and measurement of agents harmful for health in the workplace (Dz. U. Nr. 33, item 166 wraz z późn. zm.). Ordinance of the Minister of Health of 30th December 2004 on the health and safety of workers related to chemical agents at work (Dz. U. from 2005, Nr. 11, item 86, as amended).

Act of 14 December 2012. on Waste (Journal of Laws of 2013. pos. 21, as amended). Act of 13 June 2013. On packaging and packaging waste Journal. U. of 2013. Item. 888, as amended).

Ordinance of the Minister of Climate of 2nd January 2020 on Waste Catalog (Dz. U. 2020 item 10).

Ordinance of the Minister of Environment on the requirements for carrying out the process of thermal treatment of waste and how to deal with waste produced in the process. (Dz. U. of 2016., Pos. 108)

Act of 19 August 2011 on transport of dangerous goods (Dz. U. Nr. 227, item 1367, as amended).

Government Statement of 18 February 2019 on enforcing of changes Annexes A and B of Agreement concerning international transport of dangerous goods by road (ADR) (Dz. U. 2019, item 769).

Ordinance of the Minister of Health of 20th April 2012 concerning labeling of containers of dangerous substances and dangerous mixtures and some mixtures ((consolidated text) Dz. U. z 2015 nr. 0 poz. 450).

Ordinance of the Minister of Health of 11th June 2012 concerning categories of dangerous substances and dangerous mixtures for which containers must be fitted with child-resistant fastenings and a tactile warning of danger (Dz. U. from 2012, item 688 as amended).

15.2 Chemical safety assessment

This information is not available.

SECTION 16: Other information

Full text of H-Statements

EUH066	:	Repeated exposure may cause skin dryness or cracking.
H220	:	Extremely flammable gas.
H225	:	Highly flammable liquid and vapour.
H226	:	Flammable liquid and vapour.
H280	:	Contains gas under pressure; may explode 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.
H411	:	Toxic to aquatic life with long lasting effects.
EUH066	:	Repeated exposure may cause skin dryness or cracking.



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Full text of other abbreviations

Note C	:	Some organic substances may be marketed either in a specif- ic isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the sub- stance is a specific isomer or a mixture of isomers.
Note U (table 3.1)	:	When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned: Press. Gas (Comp.) Press. Gas (Liq.) Press. Gas (Ref. Liq.) Press. Gas (Diss.) Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).
2000/39/EC	:	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
2019/1831/EU	:	Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values
PL OEL	:	Poland. Occupational exposure limits for airborne toxic sub- stances
2000/39/EC / TWA	:	Limit Value - eight hours
2019/1831/EU / TWA		Limit Value - eight hours
2019/1831/EU / STEL	:	Short term exposure limit
PL OEL / NDS	:	Maximal Admissible Concentration
PL OEL / NDSch	:	Maximal Admissible Temporary Concentration

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 popula-



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tion; 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 mixt	ure:	Classification procedure:
Aerosol 1	H222, H229	Based on product data or assessment
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Based on product data or assessment
STOT SE 3	H336	Calculation method
Asp. Tox. 1	H304	Based on product data or assessment
Aquatic Chronic 3	H412	Calculation method

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