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26002 TESLANOL D Druck-Gas-Spray 200 ml 26003 TESLANOL D Druck-Gas-Spray 400 ml

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

1.1 Product identifier

26002 TESLANOL D Druck-Gas-Spray 200 ml 26003 TESLANOL D Druck-Gas-Spray 400 ml

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

No information available at present.

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

Wentronic GmbH, Pillmannstraße 12, D-38112 Braunschweig Telephone: +49 (0)531 2 10 58 - 43, Fax: +49 (0)531 2 10 58 - 743 www.wentronic.com

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (WEC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class Hazard category Hazard statement

Aerosol 1 H222-Extremely flammable aerosol.

Aerosol 1 H229-Pressurised container: May burst if heated.

2.1.2 Classification according to Directives 67/548/EEC and 1999/45/EC (including amendments)

F+,Extremely flammable

2.2 Label elements

2.2.1 Labeling according to Regulation (EC) 1272/2008 (CLP)



•

H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

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P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211-Do not spray on an open flame or other ignition source. P251-Do not pierce or burn, even after use.

P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Without adequate ventilation, formation of explosive mixtures may be possible.

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006.

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006.

SECTION 3: Composition/information on ingredients

Aerosol

3.1 Substance

n.a. 3.2 Mixture

Registration number (REACH)	
Index	-
EINECS, ELINCS, NLP	-
CAS	-
content %	
Classification according to Directive 67/548/EEC	
Classification according to Regulation (EC) 1272/2008 (CLP)	

SECTION 4: First aid measures

4.1 Description of first aid measures

Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

Skin contact

Normally not irritating to skin.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Typically no exposure pathway.

Rinse the mouth thoroughly with water.

Medical attention recommended.

4.2 Most important symptoms and effects, both acute and delayed

Irritation of the respiratory tract

Coughing

Headaches

Dizziness

Effects/damages the central nervous system

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment

Antidote:

None known

SECTION 5: Firefighting measures



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5.1 Extinguishing media Suitable extinguishing media

CO₂

Extinction powder Water jet spray Alcohol resistant foam

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Toxic pyrolysis products.

Danger of bursting (explosion) when heated

Explosive vapour/air mixture

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

If applicable, caution - risk of slipping

6.2 Environmental precautions

Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.

6.3 Methods and material for containment and cleaning up

If spray or gas escapes, ensure ample fresh air is available.

Without adequate ventilation, formation of explosive mixtures may be possible.

Allow to evaporate.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

If applicable, suction measures at the workstation or on the processing machine necessary.

Avoid contact with eyes or skin.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Do not use on hot surfaces.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

(B)

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Store product closed and only in original packing.

Do not store with flammable or self-igniting materials.

Observe special storage conditions (in Germany, e.g., in accordance with the regulations in the "Betriebssicherheitsverordnung").

Observe special regulations for aerosols!

Store in a dry place.

Store cool

Keep protected from direct sunlight and temperatures over 50°C.

Only store at temperatures from 15°C to 35°C.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

© Chemical Name	Butane				Content %:
WEL-TWA: 600 ppm (1450 mg/	/m3)	WEL-STEL:	750 ppm (1810	mg/m3)	
BMGV:				Other information:	
® Chemical Name	Propane				Content %:
WEL-TWA: 1000 ppm (ACGIH)		WEL-STEL:			
BMGV:				Other information:	
Chemical Name	Isobutane				Content %:
WEL-TWA: 1000 ppm (ACGIH)		WEL-STEL:			
BMGV:				Other information:	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Normally not necessary.

Skin protection - Hand protection:

Normally not necessary.

Skin protection - Other:

Usual protective working garments

Respiratory protection:

Normally not necessary.

If OES or MEL is exceeded.

Gas mask filter AX (EN 14387), code colour brown.

At high concentrations:

Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

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If applicable, these are included in the individual protective measures (eye/face protection, skin protection, respiratory protection).

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Aerosol, Active substance:, Gas forming

Colour: Colourless
Odour: Characteristic
Odour threshold: Not determined

pH-value: n.a.

Melting point/freezing point:

Not determined

Initial boiling point and boiling range:

n.a.

Flash point:

n.a.

Evaporation rate:

Flammability (solid, gas):

Not determined

Not determined

 Lower explosive limit:
 1,5 Vol-% (20°C, 4,5 - 6,5 bar)

 Upper explosive limit:
 10,9 Vol-% (20°C, 4,5 - 6,5 bar)

 Vapour pressure:
 4,5-6,5 bar (20°C)

Vapour density (air = 1):

Density:

Density:

Bulk density:

Solubility(ies):

Vapours heavier than air.

Vapours heavier than air.

Not determined

Not determined

Water solubility:
Partition coefficient (n-octanol/water):
Not miscible
Not determined

Auto-ignition temperature: 365 °C (Ignition temperature)

Decomposition temperature:

Viscosity:

Not determined

Not determined

Explosive properties: Possible build up of explosive/highly flammable vapour/air

mixture. Product is not explosive.

Oxidising properties: N

9.2 Other information

Miscibility:

Fat solubility / solvent:

Conductivity:

Surface tension:

Solvents content:

Not determined
Not determined
Not determined
Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

See also Subsection 10.2 to 10.6.

The product has not been tested.

10.2 Chemical stability

See also Subsection 10.1 to 10.6.

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

See also Subsection 10.1 to 10.6.

Possible build up of explosive/highly flammable vapour/air mixture.

10.4 Conditions to avoid

See also section 7.

Heating, open flame, ignition sources



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Pressure increase will result in danger of bursting.

10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

See also Subsection 10.1 to 10.5.

No decomposition when used as directed.

SECTION 11: Toxicological information

Possibly more information on health effects, see Section 2.1 (classification).

26002 TESLANOL D Druck-Gas-Spray 200 ml 26003 TESLANOL D Druck-Gas-Spray 400 ml Endpoi Value Unit Organism Toxicity/effect Test method Notes Acute toxicity, by oral route: n.d.a. Acute toxicity, by dermal n.d.a. route: Acute toxicity, by inhalation: n.d.a. Skin corrosion/irritation: n.d.a. Serious eye n.d.a. damage/irritation: Respiratory or skin n.d.a. sensitisation: Germ cell mutagenicity: n.d.a. Carcinogenicity: n.d.a. Reproductive toxicity: n.d.a. Specific target organ toxicity n.d.a. single exposure (STOT-SE): Specific target organ toxicity n.d.a. repeated exposure (STOT-RE): Aspiration hazard: n.d.a. Respiratory tract irritation: n.d.a. Repeated dose toxicity: n.d.a. Symptoms: n.d.a. Classification according Other information: to calculation procedure.

Butane						
Toxicity/effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Symptoms:						ataxia, breathing difficulties, drowsiness, unconsciousness, frostbite, disturbed heart rhythm, headaches, cramps, intoxication, dizziness, nausea and vomiting.

Propane						
Toxicity/effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation	
					Test)	

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Other adverse effects:

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Symptoms:		breathing difficulties,
		unconsciousness,
		frostbite, headaches,
		cramps, mucous
		membrane irritation,
		dizziness, nausea and
		vomiting.

Isobutane						
Toxicity/effect	Endpoi	Value	Unit	Organism	Test method	Notes
•	nt .					
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Serious eye				Rabbit		Not irritant
damage/irritation:						
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation	
					Test)	
Symptoms:						unconsciousness,
						frostbite, headaches,
						cramps, dizziness,
						nausea and vomiting.

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

26002 TESLANOL D Druck-Gas-Spray 200 ml 26003 TESLANOL D Druck-Gas-Spray 400 ml Endpoint Time Value Unit Toxicity/effect Organism Test method Notes Toxicity to fish: n.d.a. Toxicity to daphnia: n.d.a. Toxicity to algae: n.d.a. Persistence and n.d.a. degradability: Bioaccumulative n.d.a. potential: Mobility in soil: n.d.a. Results of PBT and n.d.a. vPvB assessment

Butane							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Bioaccumulative	Log Pow		2,98				A notable biological
potential:							accumulation potential
							is not to be expected
							(LogPow 1-3).
Results of PBT and							No PBT substance, No
vPvB assessment							vPvB substance

n.d.a.

Propane							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Bioaccumulative	Log Pow		2,28				A notable biological
potential:							accumulation potential
							is not to be expected
							(LogPow 1-3).
Results of PBT and							No PBT substance, No
vPvB assessment							vPvB substance

SECTION 13: Disposal considerations

13.1 Waste treatment methods For the substance / mixture / residual amounts

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EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)

16 05 04 gases in pressure containers (including halons) containing dangerous substances

Recommendation:

Pay attention to local and national official regulations

Implement substance recycling.

For contaminated packing material

Pay attention to local and national official regulations

Recommendation:

Do not perforate, cut up or weld uncleaned container.

Recyclina

15 01 04 metallic packaging

SECTION 14: Transport information

General statements

UN number: 1950 Transport by road/by rail (ADR/RID)

UN proper shipping name:

UN 1950 AEROSOLS Transport hazard class(es): 2.1 Packing group: Classification code: 5F LQ (ADR 2013): 1 L LQ (ADR 2009):

Environmental hazards: Not applicable

Tunnel restriction code:

Transport by sea (IMDG-code)

UN proper shipping name:

AEROSOLS

Transport hazard class(es): 2.1 Packing group:

EmS: F-D, S-U Marine Pollutant: n.a

Environmental hazards: Not applicable

Transport by air (IATA)

UN proper shipping name:

Aerosols, flammable

Transport hazard class(es): 2.1 Packing group:

Environmental hazards: Not applicable

Special precautions for user

Persons employed in transporting dangerous goods must be trained.

All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

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

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.

SECTION 15: Regulatory information

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

For classification and labelling see Section 2.

Observe restrictions:

Comply with trade association/occupational health regulations.

Observe youth employment law (German regulation).

Regulation (EC) No 1907/2006, Annex XVII

Directive 2010/75/EU (VOC):

15.2 Chemical safety assessment

100 %





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A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

These details refer to the product as it is delivered.

Revised sections:

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Aerosol 1, H222	Classification based on test data.
Aerosol 1, H229	Classification based on test data.

Aerosol — Aerosols

Any abbreviations and acronyms used in this document:

AC **Article Categories**

acc., acc. to according, according to

ACGIH American Conference of Governmental Industrial Hygienists

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOEL Acceptable Operator Exposure Level AOX Adsorbable organic halogen compounds

approximately approx. Art., Art. no. Article number

ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)

BGV BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol) BMGV Biological monitoring guidance value (EH40, UK)

BOD Biochemical oxygen demand

BSEF Bromine Science and Environmental Forum

bw body weight

Chemical Abstracts Service CAS

CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids

CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques

CIPAC Collaborative International Pesticides Analytical Council

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

COD Chemical oxygen demand

CTFA Cosmetic, Toiletry, and Fragrance Association

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

DT50 Dwell Time - 50% reduction of start concentration

DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)

dry weight dw

for example (abbreviation of Latin 'exempli gratia'), for instance e.g.

EC **European Community**

ECHA European Chemicals Agency

EEA European Economic Area

EEC **European Economic Community**

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances (GB)-

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EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ERC Environmental Release Categories

ES Exposure scenario

etc. et cetera

EU European Union

EWC European Waste Catalogue

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

HET-CAM Hen's Egg Test - Chorionallantoic Membrane

HGWP Halocarbon Global Warming Potential IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC Intermediate Bulk Container

IBC (Code) International Bulk Chemical (Code)

IC Inhibitory concentration

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLIDInternational Uniform Chemical Information Database

LC lethal concentration

LC50 lethal concentration 50 percent kill LCLo lowest published lethal concentration

LD Lethal Dose of a chemical LD50 Lethal Dose, 50% kill LDLo Lethal Dose Low

LOAELLowest Observed Adverse Effect Level LOEC Lowest Observed Effect Concentration

LOEL Lowest Observed Effect Level

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicablen.av. not availablen.c. not checkedn.d.a. no data available

NIOSH National Institute of Occupational Safety and Health (United States of America)

NOAEC No Observed Adverse Effective Concentration

NOAEL No Observed Adverse Effect Level

NOEC No Observed Effect Concentration NOEL No Observed Effect Level ODP Ozone Depletion Potential

OECD Organisation for Economic Co-operation and Development

org. organic

PAH polycyclic aromatic hydrocarbon PBT persistent, bioaccumulative and toxic

PC Chemical product category
PE Polyethylene

PNEC Predicted No Effect Concentration
POCP Photochemical ozone creation potential

ppm parts per million PROC Process category PTFE Polytetrafluorethylene

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SADT Self-Accelerating Decomposition Temperature

SAR Structure Activity Relationship

SU Sector of use

SVHC Substances of Very High Concern

Tel. Telephone

ThOD Theoretical oxygen demand

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TOC Total organic carbon

TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

WHO World Health Organization

wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by:

Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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