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Safety Data Sheet acc. to OSHA HCS

Printing date 08/04/2022 Reviewed on 08/04/2022

1 Identification

· Product identifier

· Trade name: AG-7500 series Tuning Sol

· Article number: ICP-MS-TS-9-A

Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

High-Purity Standards

7221 Investment Drive, North Charleston, SC 29418 United States

Telephone: +1-843-767-7900 Fax: +1-843-767-7906 highpuritystandards.com

Email: info@highpuritystandards.com

· Information department: Product safety department

Emergency telephone number:

INFOTRAC

Emergency telephone numbers 1-800-535-5053 Other emergency telephone numbers 1-352-323-3500

2 Hazard(s) identification

· Classification of the substance or mixture



GHS05 Corrosion

Met. Corr.1 H290 May be corrosive to metals.

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

- · Label elements
- GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



GHS05

- · Signal word Danger
- · Hazard-determining components of labeling: nitric acid
- · Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

· Precautionary statements

Keep only in original container.

(Contd. on page 2)





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Do not breathe dusts or mists.

Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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/doctor.

Specific treatment (see on this label).

Wash contaminated clothing before reuse.

Absorb spillage to prevent material damage.

Store locked up.

Store in corrosive resistant container with a resistant inner liner.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 3 Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 3 Fire = 0 Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:	
7697-37-2 nitric acid	5.0%
· Chemical identification of the substance/preparation	
7732-18-5 water, distilled, conductivity or of similar purity	94.98%
543-81-7 beryllium acetate	0.002%
7440-38-2 arsenic	0.002%
7440-43-9 cadmium	0.002%
7440-66-6 zinc	0.002%
·	(Contd. on page 3)

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		(Contd. of pag
7439-92-1		0.001%
7439-95-4	magnesium	0.001%
7440-02-0	nickel	0.001%
497-19-8	sodium carbonate	0.00059
513-77-9	barium carbonate	0.00059
554-13-2	lithium carbonate	0.00059
6156-78-1	Manganese(II) acetate tetrahydrate	0.00059
7429-90-5	aluminium	0.00059
7440-28-0	thallium	0.00059
7440-29-1	thorium	0.00059
7440-47-3	chromium	0.00059
7440-48-4	cobalt	0.00059
7440-50-8	copper	0.00059
7440-69-9	bismuth	0.00059
7440-74-6	indium	0.00059
7803-55-6	Ammonium Vanadate	0.00059
10042-76-9	strontium nitrate	0.00059
10102-06-4	Uranyl nitrate	0.00059
12032-20-1	lutetium oxide	0.00059
12060-08-1	scandium oxide	0.00059
7440-64-4	ytterbium	0.00025
7440-65-5	vttrium	0.00025

4 First-aid measures

- · Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.





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5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

PAC-1:	
7697-37-2 nitric acid	0.16 ppm
7440-38-2 arsenic	1.5 mg/m^3
7440-43-9 cadmium	$0.10~mg/m^3$
7440-66-6 zinc	6 mg/m ³
7439-92-1 lead	0.15 mg/m^3
7439-95-4 magnesium	18 mg/m³
7440-02-0 nickel	4.5 mg/m^3
497-19-8 sodium carbonate	7.6 mg/m^3
513-77-9 barium carbonate	2.2 mg/m^3
554-13-2 lithium carbonate	3.1 mg/m^3
6156-78-1 Manganese(II) acetate tetrahydrate	13 mg/m³
7440-28-0 thallium	$0.06 mg/m^3$
7440-29-1 thorium	30 mg/m^3
7440-47-3 chromium	1.5 mg/m^3
7440-48-4 cobalt	0.18 mg/m^3

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7440-50-8	conner	(Contd. of page $3 mg/m^3$
7440-69-9		15 mg/m^3
7440-74-6		0.3 mg/m^3
	Ammonium Vanadate	0.01 mg/m
	strontium nitrate	5.7 mg/m ³
	Uranyl nitrate	0.99 mg/m
	lutetium oxide	30 mg/m^3
	scandium oxide	30 mg/m^3
7440-65-5	yttrium	$3 mg/m^3$
<i>PAC-2</i> :		
7697-37-2	nitric acid	24 ppm
7440-38-2	arsenic	17 mg/m³
7440-43-9	cadmium	0.76 mg/m
7440-66-6	zinc	21 mg/m³
7439-92-1	lead	120 mg/m
7439-95-4	magnesium	200 mg/m
7440-02-0	nickel	50 mg/m^3
497-19-8	sodium carbonate	83 mg/m^3
513-77-9	barium carbonate	270 mg/m
554-13-2	lithium carbonate	34 mg/m^3
6156-78-1	Manganese(II) acetate tetrahydrate	$22 mg/m^3$
7440-28-0	thallium	3.3 mg/m ³
7440-29-1	thorium	330 mg/m
7440-47-3	chromium	17 mg/m^3
7440-48-4	cobalt	2 mg/m³
7440-50-8	copper	33 mg/m^3
7440-69-9	bismuth	170 mg/m
7440-74-6	indium	3.3 mg/m^3
7803-55-6	Ammonium Vanadate	0.11 mg/m
10042-76-9	strontium nitrate	62 mg/m^3
10102-06-4	Uranyl nitrate	5.5 mg/m^3
12032-20-1	lutetium oxide	330 mg/m ⁻
12060-08-1	scandium oxide	330 mg/m
7440-65-5	yttrium	33 mg/m^3
<i>PAC-3</i> :		1
7697-37-2	nitric acid	92 ppm
7440-38-2	arsenic	100 mg/m^3



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7440-43-9 cadmium	4.7 mg/m^3
7440-66-6 zinc	120 mg/m^3
7439-92-1 lead	700 mg/m³
7439-95-4 magnesium	1,200 mg/n
7440-02-0 nickel	99 mg/m³
497-19-8 sodium carbonate	500 mg/m^3
513-77-9 barium carbonate	1,600 mg/n
554-13-2 lithium carbonate	210 mg/m^3
6156-78-1 Manganese(II) acetate tetrahydrate	740 mg/m³
7440-28-0 thallium	20 mg/m^3
7440-29-1 thorium	2,000 mg/n
7440-47-3 chromium	99 mg/m³
7440-48-4 cobalt	20 mg/m^3
7440-50-8 copper	200 mg/m^3
7440-69-9 bismuth	990 mg/m³
7440-74-6 indium	20 mg/m^3
7803-55-6 Ammonium Vanadate	80 mg/m^3
10042-76-9 strontium nitrate	370 mg/m^3
10102-06-4 Uranyl nitrate	33 mg/m^3
12032-20-1 lutetium oxide	2,000 mg/n
12060-08-1 scandium oxide	2,000 mg/n
7440-65-5 yttrium	200 mg/m^3

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

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8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

7697-37-2 nitric acid

PEL Long-term value: 5 mg/m³, 2 ppm REL Short-term value: 10 mg/m³, 4 ppm Long-term value: 5 mg/m³, 2 ppm

TLV Short-term value: 4 ppm Long-term value: 2 ppm

- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye protection:



Tightly sealed goggles

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	<i>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</i>	Cut	UD I D UD		CHILL	Cut	ν		

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Liquid

Color: According to product specification

· Odor: Characteristic · Odor threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range:Undetermined.Boiling point/Boiling range:83 °C (181.4 °F)Flash point:Not applicable.

Flash point: Not applicable.
 Flammability (solid, gaseous): Not applicable.

· **Decomposition temperature:** Not determined.

· Auto igniting: Product is not selfigniting.

• Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower: Not determined. Upper: Not determined.

• Vapor pressure at 20 °C (68 °F): 23 hPa (17.3 mm Hg)

Density: Not determined.
 Relative density Not determined.
 Vapor density Not determined.
 Evaporation rate Not determined.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not determined. **Kinematic:** Not determined.

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95.0 %	
0.00 %	
0.0 g/l / 0.00 lb/gal	
0.0 %	
No further relevant information available.	
	0.00 % 0.0 g/l / 0.00 lb/gal 0.0 %

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: Strong caustic effect on skin and mucous membranes.
- on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (Inte	ernational Agency for Research on Cancer)	
543-81-7	beryllium acetate	1
7440-38-2		1
7440-43-9	cadmium	1
7439-92-1	lead	2B
7440-02-0	nickel	2B
	(Contd. on pa	000

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7440-29-1	thorium	Ī
7440-47-3	chromium	3
7440-48-4	cobalt	2.
· NTP (Nati	ional Toxicology Program)	·
543-81-7	beryllium acetate	
7440-38-2	arsenic	
7440-43-9	cadmium	
7439-92-1	lead	
7440-02-0	nickel	
7440-48-4	cobalt	,
· OSHA-Ca	(Occupational Safety & Health Administration)	
7440-38-2	arsenic	
7440-43-9	cadmium	

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number	
DOT, ADR, IMDG, IATA	UN3264
UN proper shipping name	
DOT ADR	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid) 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.
	(NITRIC ACID)
IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRI ACID)
Transport hazard class(es)	
DOT	
CORROSIVE	
Class	8 Corrosive substances
Label	8
2	
Class	8 (C1) Corrosive substances
Label	8
IMDG, IATA	
Class	8 Corrosive substances
Label	8
Packing group DOT, ADR, IMDG, IATA	III
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Corrosive substances





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Hazard identification number (Kemler code)	: 80
EMS Number:	F-A,S-B
Segregation groups	Acids
Stowage Category	A
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
ADR	
Excepted quantities (EQ)	Code: E1
• •	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
• • •	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O. (NITRIC ACID), 8, III

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara

Sura	
· Section 355	(extremely hazardous substances):
7697-37-2	nitric acid
· Section 313	(Specific toxic chemical listings):
7697-37-2	nitric acid
543-81-7	beryllium acetate
7440-38-2	arsenic
7440-43-9	cadmium
7440-66-6	zinc
7439-92-1	lead
7440-02-0	nickel
513-77-9	barium carbonate
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554-13-2 lithium carbonate	
7429-90-5 aluminium	
7440-28-0 thallium	
7440-47-3 chromium	
7440-48-4 cobalt	
7440-50-8 copper	
7803-55-6 Ammonium Vanadate	
10042-76-9 strontium nitrate	
· TSCA (Toxic Substances Control Act):	
7732-18-5 water, distilled, conductivity or of similar purity	ACTI
7697-37-2 nitric acid	ACTI
7440-38-2 arsenic	ACTI
7440-43-9 cadmium	ACTI
7440-66-6 zinc	ACTI
7439-92-1 lead	ACTI
7439-95-4 magnesium	ACTI
7440-02-0 nickel	ACTI
497-19-8 sodium carbonate	ACTI
513-77-9 barium carbonate	ACTI
554-13-2 lithium carbonate	ACTI
7429-90-5 aluminium	ACTI
7440-28-0 thallium	ACTI
7440-29-1 thorium	ACTI
7440-47-3 chromium	ACTI
7440-48-4 cobalt	ACTI
7440-50-8 copper	ACTI
7440-69-9 bismuth	ACTI
7440-74-6 indium	ACTI
7803-55-6 Ammonium Vanadate	ACTI
10042-76-9 strontium nitrate	ACTI
10102-06-4 Uranyl nitrate	ACTI
12032-20-1 lutetium oxide	ACTI
12060-08-1 scandium oxide	ACTI
7440-64-4 ytterbium	ACTI
7440-65-5 yttrium	ACTI
Hazardous Air Pollutants	
7439-92-1 lead	





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7440-48-4		
Proposition		
	known to cause cancer:	
	beryllium acetate	
7440-38-2		
7440-43-9		
7439-92-1		
7440-02-0		
7440-48-4	cobalt	
Chemicals	known to cause reproductive toxicity for female.	s:
7439-92-1	lead	
Chemicals	known to cause reproductive toxicity for males:	
7440-43-9	cadmium	
7439-92-1	lead	
Chemicals	known to cause developmental toxicity:	
7440-43-9	cadmium	
7439-92-1	lead	
554-13-2	lithium carbonate	
Carcinoga	nic categories	
	ronmental Protection Agency)	
7440-38-2		A
7440-43-9		B1
7440-66-6		D, I, II
7439-92-1		B2
	barium carbonate	D, CBD(inh), NL(o
7440-47-3		D
7440-50-8		
	shold Limit Value)	
7440-38-2		
7440-43-9		
7439-92-1		
7440-02-0		
	barium carbonate	
7429-90-5		
	chromium	
/440-4/-3		

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· NIOSH-Ca (National Institute for Occupational Safety and Health)		
543-81-7	beryllium acetate	
7440-38-2		
7440-43-9		
7440-02-0		
10102-06-4	Uranyl nitrate	

- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



GHS05

- · Signal word Danger
- · Hazard-determining components of labeling:

nitric acid

· Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

· Precautionary statements

Keep only in original container.

Do not breathe dusts or mists.

Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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/doctor.

Specific treatment (see on this label).

Wash contaminated clothing before reuse.

Absorb spillage to prevent material damage.

Store locked up.

Store in corrosive resistant container with a resistant inner liner.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Environment protection department.

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· Contact:

High-Purity Standards Tel: 843-767-7900 Fax: 843-767-7906

· Date of preparation / last revision 08/04/2022 / -

· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International

Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Met. Corr.1: Corrosive to metals – Category 1

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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