

## Eni aquamet BAG

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

#### **1.1 Product identifier**

Trade name: Eni aquamet BAG

UFI: EQ30-X0GN-U005-896P

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

General use: Metalworking fluid

#### 1.3 Details of the supplier of the safety data sheet

Company name:	Eni Schmiertechnik GmbH
Street/POB-No.:	Paradiesstaße 14
Postal Code, city:	DE-97080 Würzburg
WWW:	www.enischmiertechnik.de
E-mail:	info.wuerzburg@eni.com
Telephone:	+49 (0)931-90098-0
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Department responsible for	r information:
	Application Engineering & Product Management (AEPM)
	Telephone: +49 (0)931-90098-0
	E-mail: technik.wuerzburg@eni.com

#### 1.4 Emergency telephone number

GIZ-Nord, Göttingen Telephone: +49 (0)551-19240

## **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

#### Classification according to EC regulation 1272/2008 (CLP)

This mixture is classified as not hazardous.

#### 2.2 Label elements

#### Labelling (CLP)

Hazard statements: not applicable

Precautionary statements: not applicable

#### Special labelling

EUH208Contains 3-lodo-2-propynyl butylcarbamate. May produce an allergic reaction.EUH210Safety data sheet available on request.

#### 2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment:

No data available



according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878



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## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances: not applicable

#### 3.2 Mixtures

Chemical characterisation: A mixture of base oils and additives.

Hazardous ingredients:

Ingredient	Designation	Content	Classification
REACH 01-2119480375-34-xxxx EC No. 265-156-6 CAS 64742-53-6	Distillates (petroleum), hydrotreated light naphthenic	15 - 20 %	Asp. Tox. 1; H304.
REACH 01-2119486683-25-xxxx EC No. 233-139-2 CAS 10043-35-3	Boric acid (SVHC)	< 5.5 %	Repr. 1B; H360FD.
REACH 01-2119475104-44-xxxx EC No. 203-961-6 CAS 112-34-5	2-(2-Butoxyethoxy)ethanol	1 - 5 %	Eye Irrit. 2; H319.
CAS 827613-35-4	Amide polyglycol ether	1 - 5 %	Skin Irrit. 2; H315. Aquatic Chronic 3; H412.
REACH 01-2119978234-31-xxxx EC No. 223-470-0 CAS 3913-02-8	2-Butyloctan-1-ol	1 - 2.5 %	Aquatic Acute 1; H400 (M-factor = 1). Aquatic Chronic 2; H411.
EC No. 259-627-5 CAS 55406-53-6	3-lodo-2-propynyl butylcarbamate	< 0.25 %	Acute Tox. 4; H302. Acute Tox. 3; H331. Eye Dam. 1; H318. Skin Sens. 1; H317. STOT RE 1; H372. Aquatic Acute 1; H400 (M-factor = 10). Aquatic Chronic 1; H410 (M-factor = 1).

Full text of H- and EUH-statements: see section 16.

Additional information:

Contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: Boric acid (Toxic for reproduction (Article 57c))

Information about Boric acid, Specific concentration limits (SCL): Repr. 1 FD; H360: C  $\geq 5.5\%$ 

## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General information:Remove victim out of the danger area. When in doubt or if symptoms are observed, get<br/>medical advice.In case of inhalation:Remove casualty to fresh air and keep warm and at rest. Where appropriate artificial<br/>ventilation. Seek medical attention if problems persist.Following skin contact:Immediately clean with water and soap followed by thorough rinsing. In case of skin<br/>reactions, consult a physician.



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 (REACH)

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After eye contact

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Seek medical attention.

#### 4.2 Most important symptoms and effects, both acute and delayed

May cause allergic reactions in already sensitized persons.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media:

water mist, foam, extinguishing powder, sand and carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet

#### 5.2 Special hazards arising from the substance or mixture

May form dangerous gases and vapours in case of fire. Furthermore, there may develop: Nitrogen oxides (NOx), phosphorus oxides, carbon monoxide and carbon dioxide.

#### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information: Use fine water spray to cool endangered containers. Do not allow water used to extinguish fire to enter drains, ground or waterways. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

## **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing mist/vapours/spray. Provide adequate ventilation. Wear appropriate protective equipment.

Take off contaminated clothing and wash it before reuse. Keep unprotected people away.

#### 6.2 Environmental precautions

Do not release large quantities into the surface water or into drains.

#### 6.3 Methods and material for containment and cleaning up

In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

Never return spills in original containers for re-use.

Additional information: Special danger of slipping by leaking/spilling product.

#### 6.4 Reference to other sections

Refer additionally to section 8 and 13.



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## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid breathing mist/vapours/spray. Wear appropriate protective equipment. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storeroo	ms and containers:
	Keep container tightly closed and in a well-ventilated place.
	Keep container dry. Keep only in the original container.
	Protect from heat and direct sunlight.
	Store containers in upright position.
	Protect from frost.
	storage temperature: 5 - 40 °C (Shelf life: 12 months)
Hints on joint storage:	Do not store with strong oxidizing agents.
	Keep away from food, drink and animal feedingstuffs.
Storage class:	10 = Combustible liquids, unless storage class 3
<b>T O O O O O O O O O O</b>	

#### 7.3 Specific end use(s)

No information available.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Туре	Limit value
10043-35-3	Boric acid (SVHC)	Germany: TRGS 900 Kurzzeit	1 mg/m³ (inhalable fraction)
	<b>X Y</b>	Germany: TRGS 900 Langzeit	0.5 mg/m³ (inhalable fraction)
112-34-5	2-(2- Butoxyethoxy) ethanol	Europe: IOELV: STEL	101.2 mg/m³; 15 ppm
		Europe: IOELV: TWA	67.5 mg/m³; 10 ppm
		Germany: TRGS 900 Kurzzeit	100.5 mg/m³; 15 ppm (Aerosol and vapour)
		Germany: TRGS 900 Langzeit	67 mg/m³; 10 ppm (Aerosol and vapour)
55406-53-6	3-lodo-2- propynyl butylcarbamate	Germany: TRGS 900 Kurzzeit	0.106 mg/m³; 0.01 ppm (Aerosol and vapour)
		Germany: TRGS 900 Langzeit	0.058 mg/m³; 0.005 ppm (Aerosol and vapour)



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DNEL/DMEL:	Information about Distillates (petroleum), hydrotreated light naphthenic: DNEL workers, long-term, inhalative, systemic: 2.73 mg/m <sup>3</sup> DNEL workers, long-term, dermal, systemic: 0.97 mg/kg bw/d DNEL consumers, long-term, dermal, systemic: 0.97 mg/kg bw/d Information about Boric acid: DNEL workers, inhalative, long-term, systemic: 8.3 mg/m <sup>3</sup> DNEL workers, inhalative, long-term, systemic: 392 mg/kg bw/d DNEL consumers, inhalative, long-term, systemic: 4.15 mg/m <sup>3</sup> DNEL consumers, oral, long-term, systemic: 0.98 mg/kg bw/d DNEL consumers, oral, long-term, systemic: 0.98 mg/kg bw/d Information about 2-(2-Butoxyethoxy)ethanol: DNEL workers, long-term, inhalative, systemic: 67.5 mg/m <sup>3</sup> DNEL workers, long-term, inhalative, systemic: 101.2 mg/m <sup>3</sup> DNEL consumers, long-term, oral, systemic: 123.3 mg/m <sup>3</sup> DNEL consumers, long-term, inhalative, systemic: 123.3 mg/m <sup>3</sup> DNEL workers, long-term, inhalative, systemic: 35 mg/kg bw/d Information about 2-Butyloctan-1-ol: DNEL workers, long-term, inhalative, systemic: 31.1 mg/m <sup>3</sup> DNEL consumers, long-term, information is 21 mg/kg bw/d
PNEC:	Information about Distillates (petroleum), hydrotreated light naphthenic: PNEC oral: 9.33 mg/kg Information about Boric acid: PNEL water (freshwater): 2.9 mg/L PNEL water (marine water): 2.9 mg/L PNEL sewage treatment plant: 10 g/L PNEL soil: 5.7 mg/kg Information about 2-(2-Butoxyethoxy)ethanol: PNEC water (freshwater): 1.1 mg/L PNEC water (marine water): 0.11 mg/L PNEC sediment (freshwater): 4.4 mg/kg PNEC sediment (marine water): 0.44 mg/kg PNEC soil: 0.32 mg/kg Information about 2-Butyloctan-1-ol: PNEC water (freshwater): 0 mg/L PNEC water (marine water): 0 mg/L PNEC water (marine water): 0 mg/L PNEC water (marine water): 0 mg/L PNEL sewage treatment plant: 10 mg/L
8.2 Exposure	e controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

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#### **Personal protection equipment**

#### **Occupational exposure controls**

Respiratory protection:	Respiratory protection must be worn whenever the WEL levels have been exceeded. Filter type Combination filtering device (EN 14387) The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.	
Hand protection:	Protective gloves according to EN 374.	
	During full contact: Glove material: Nitrile rubber, chloroprene rubber, polychloroprene. Breakthrough time: > 480 min. Layer thickness: 0.7 mm	
	During splash contact: Glove material: nitrile rubber, polychloroprene, chloroprene rubber Breakthrough time: > 30 min Layer thickness: 0.4 mm	
	Unsuitable material: polyvinyl alcohol	
	Observe glove manufacturer's instructions concerning penetrability and breakthrough time.	
Eye protection:	Tightly sealed goggles according to EN 166.	
Body protection:	Wear suitable protective clothing.	
General protection and hygiene measures:		
	Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.	

#### **Environmental exposure controls**

Refer to "6.2 Environmental precautions".

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	brown
Odour:	Characteristic
Odour threshold:	No data available
Melting point/freezing point:	No data available
initial boiling point and boiling range:	> 160 °C
Flammability:	No data available
Upper/lower flammability or explosive limits:	LEL (Lower Explosion Limit): 0.60 Vol-%
Flash point/flash point range:	UEL (Upper Explosion Limit): 6.50 Vol-% > 140 °C (DIN EN ISO 2592)
Decomposition temperature:	No data available
pH:	at 20 °C, 5%: 9.2 (DIN 51369)
Viscosity, kinematic:	at 20 °C: approx. 125 mm²/s (DIN EN ISO 3104)
Water solubility:	at 20 °C: Miscible
Partition coefficient: n-octanol/water:	No data available
Vapour pressure:	No data available

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Density: Vapour density: Particle characteristics: <b>9.2 Other information</b>	at 20 °C: 0.987 g/mL (DIN EN ISO 12185) Not determined Not applicable
Explosive properties:	Product is not explosive.
Oxidizing characteristics:	Not oxidising.
Auto-ignition temperature:	> 240 °C
Evaporation rate:	No data available
Additional information:	No data available

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Refer to subsection "Possilbility of hazardous reactions".

#### **10.2 Chemical stability**

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

#### **10.4 Conditions to avoid**

Keep away from heat sources, sparks and open flames. Protect from direct sunlight. Protect from frost.

#### 10.5 Incompatible materials

Strong oxidizing agents.

#### **10.6 Hazardous decomposition products**

No decomposition when used properly.Thermal decomposition:No data available



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## **SECTION 11: Toxicological information**

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

Toxicological effects:

The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.

Acute toxicity (dermal): Based on available data, the classification criteria are not met. Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Based on available data, the classification criteria are not met. Contains 3-lodo-2-propynyl butylcarbamate. May produce an allergic reaction.

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

Aspiration hazard: Lack of data.

#### 11.2 Information on other hazards

Endocrine disrupting properties:

	No data available
Other information:	Information about Distillates (petroleum), hydrotreated light naphthenic: LD50, Rat, oral: > 5,000 mg/kg (OECD 401) LC50, Rat, inhalative: 2.18 mg/L (OECD 403) LD50, Rabbit, dermal: > 5,000 mg/kg (OECD 402)
	Information about Boric acid: LD50 Rat, oral: 3,450 mg/kg bw LD50 Rabbit, dermal: > 2,000 mg/kg bw LC50 Rat, inhalative: > 2.03 mg/L/5 h (OECD 403 (Aerosol))
	Information about 2-(2-Butoxyethoxy)ethanol: LD50, Mouse, oral: 2,410 mg/kg (OECD 401) LD50, Rabbit, dermal: 25,764 mg/kg (OECD 402)
	Information about 2-Butyloctan-1-ol: LD50, Rat, oral: 26,533 mg/kg (OECD 401) LD50, Rabbit, dermal: 1,657 mg/kg



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## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: Information about Distillates (petroleum), hydrotreated light naphthenic: Fish toxicity: LL50, Pimephales promelas (fathead minnow): > 100 mg/L/96h (OECD 203) Daphnia toxicity: EL50, Daphnia magna (Big water flea): > 10,000 mg/L/48h (OECD 202) NOEL, Daphnia magna (Big water flea): 10 mg/L/21d Algae toxicity: NOEL, Pseudokirchneriella subcapitata (green algae): 100 mg/L/72h (OECD 201) Information about Boric acid: Fish toxicity: LC50, Limanda limanda: 74 mg/L/96h Daphnia toxicity: EC50, Daphnia magna (Big water flea): 133 mg/L/48h (ASTM E 729-80). Information about 2-(2-Butoxyethoxy)ethanol: Fish toxicity: EL50, Pimephales promelas (fathead minnow): 2,400 mg/L/96h QSAR: 369 mg/L/30d Daphnia toxicity: EC50, Daphnia magna (Big water flea): > 100mg/L/48h (OECD 202) EC50, Daphnia magna (Big water flea): 112 mg/L/14d Algae toxicity: EC50, Pseudokirchneriella subcapitata (green algae): 1,101 mg/L/72h (OECD 201) Information about 2-Butyloctan-1-ol: Fish toxicity: LC50, Oncorhynchus mykiss: 0.48 mg/L/96h (OECD T 203) Daphnia toxicity: EC50, Daphnia magna (Big water flea): 0.14 mg/L/48h NOEC, Daphnia magna (Big water flea): 14 µg/L/21d Algae toxicity: EC50, Pseudokirchneriella subcapitata (green algae): 2.1 mg/L/72h Water Hazard Class: 2 = obviously hazardous to water (Self-classification (mixture).)

#### 12.2 Persistence and degradability

Further details:

Part of the components is biodegradable.

Poorly eliminated from water.

#### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

No data available

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

No data available



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#### 12.6 Endocrine disrupting properties

No data available

#### 12.7 Other adverse effects

General information.

Do not allow to enter into ground-water, surface water or drains.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Product

Recommendation:

ASN 120107\*: Mineral-based machining oils free of halogens (except emulsions and solutions) ASN 120109\*: Machining emulsions and solutions free of halogens \* : Evidence for disposal must be provided.

Dispose of waste according to applicable legislation. Do not dispose of with household waste.

#### Package

Recommendation:

Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself.

## **SECTION 14: Transport information**

#### 14.1 UN number or ID number

ADR/RID. ADN. IMDG. IATA-DGR: not applicable

#### 14.2 UN proper shipping name

ADR/RID, ADN, IMDG, IATA-DGR:

Not restricted

#### 14.3 Transport hazard class(es)

ADR/RID, ADN, IMDG, IATA-DGR:

not applicable

#### 14.4 Packing group

ADR/RID, ADN, IMDG, IATA-DGR:

not applicable

#### 14.5 Environmental hazards

Dangerous for the environment:

Substance/mixture is not environmentally hazardous according to the criteria of the UN model regulations. no

Marine pollutant - IMDG:

#### 14.6 Special precautions for user

No dangerous good in sense of these transport regulations.



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#### 14.7 Maritime transport in bulk according to IMO instruments

No data available

## **SECTION 15: Regulatory information**

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

#### **National regulations - Germany**

Storage class: 10 = Combustible liquids, unless storage class 3

Water Hazard Class: 2 = obviously hazardous to water (Self-classification (mixture).)

Technical guidance air: 5.2.5 I : < 5%

Information on working limitations:

Observe employment restrictions for young people. Observe employment restrictions for expectant or nursing mothers.

Further regulations, limitations and legal requirements:

The product is not subject to the Chemicals Prohibition Ordinance (ChemVerbotsV).

#### National regulations - EC member states

Volatile organic compounds (VOC):

<= 2.87 % by weight

Further regulations, limitations and legal requirements:

No data available

#### **15.2 Chemical Safety Assessment**

For this mixture a chemical safety assessment is not required.

## **SECTION 16: Other information**

#### Further information

Wording of the H-phrases under paragraph 2 and 3:

- H302 = Harmful if swallowed.
- H304 = May be fatal if swallowed and enters airways.

H315 = Causes skin irritation.

H317 = May cause an allergic skin reaction.

- H318 = Causes serious eye damage.
- H319 = Causes serious eye irritation.

H331 = Toxic if inhaled.

H360FD = May damage fertility. May damage the unborn child.

H372 = Causes damage to organs through prolonged or repeated exposure.

H400 = Very toxic to aquatic life.

H410 = Very toxic to aquatic life with long lasting effects.

H411 = Toxic to aquatic life with long lasting effects.

H412 = Harmful to aquatic life with long lasting effects.

EUH208 = Contains 3-Iodo-2-propynyl butylcarbamate. May produce an allergic reaction.

EUH210 = Safety data sheet available on request.



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Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

AS/NZS: Australian Standards/New Zealand Standards

CAS: Chemical Abstracts Service

CFR: Code of Federal Regulations

CLP: Classification, Labelling and Packaging

DMEL: Derived minimal effect level

DNEL: Derived no-effect level EC: European Community

EC50: Effective Concentration 50%

EL50: Effective loading rate 50%

EN: European Standard

EQ: Excepted quantities

EU: European Union

IATA: International Air Transport Association

IATA-DGR: International Air Transport Association – Dangerous Goods Regulations IBC Code: International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk

IMDG Code: International Maritime Dangerous Goods Code

LC50: Median lethal concentration

LD50: Lethal dose 50%

LEL: Lower Explosion Limit

MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

M-factor: Multiplication factor

NOEC: No Observed Effect Concentration

OECD: Organisation for Economic Co-operation and Development

OEL: Occupational Exposure Limit Value

OSHA: Occupational Safety and Health Administration

PBT: Persistent, bioaccumulative and toxic

PNEC: Predicted no-effect concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail STOT RE: Specific target organ toxicity - repeated exposure SVHC: Substance of very high concern TLV: Threshold Limit Value TRGS: Technical Rules for Hazardous Substances vPvB: Very persistent and very bioaccumulative

WEL: Workplace Exposure Limit

 Reason of change:
 Changes in section 1: product identifier (UFI)

 General revision
 3/29/2022

Date of first version: 3/29/2022

#### Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.



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Most recent product information is available at: http://sumdat.net/ffxd2s79

