

Version: 4.5 e date: 19/11/2020

Effective date: 19/11/2020 Previous Date: 16/07/2019

SAFETY DATA SHEET PETROFLO 20Y104E (PetroKare PK 40 AF)

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

1.1. Product identifier

Trade name or designation

PETROFLO 20Y104E (PetroKare PK 40 AF)

of the mixture

Date of first issue 03/10/2006

Version number 4.5

Revision date 19/11/2020 Supersedes date 16/07/2019

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

Identified uses Polymerisation inhibitor

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

JV Process and Water Chemicals LLC Address: Street V. Kadirov 10, Chirchik city, Tashkent Region, Republic of Uzbekistan, 111727

Tel: +99871 209 10 40 Email address: info@pwch.uz

www.pwch.uz

1.4. Emergency telephone number

Multilingual emergency number (24/7)

Street V. Kadirov 10, Chirchik city, Tashkent Region, Republic of Uzbekistan, 111727

Tel: +99871 209 10 40

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

exposure

Skin corrosion/irritation Category 2 H315 - Causes skin irritation.

Serious eye damage/eye irritation Category 1 H318 - Causes serious eye

damage.

Specific target organ toxicity - single Category 3 narcotic effects H336 - May cause drowsiness or

dizziness.

Aspiration hazard Category 1 H304 - May be fatal if swallowed

and enters airways.

Environmental hazards

Hazardous to the aquatic environment, Category 2 H411 - Toxic to aquatic life with

long-term aquatic hazard long lasting effects.



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2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: 4-Hydroxy-2,2,6,6-tetramethylpiperidin- N-oxyl, Hydrocarbons, C10, aromatics, <1% naphthalene

Hazard pictograms



Signal word Danger

Hazard statements

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE/doctor.

Storage Not available.

Disposal Not available.

Supplemental label information None.

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

Mixtures

Chemical description Glycol in aromatic solvent

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Hydrocarbons, C10, aromatics, <1% naphthalene	50 - < 60	N/A 918-811-1	01-2119463583-34	-	
Classification: Asp. Tox. 1;H	1304, STO	⊺SE 3;H336, Aqua	tic Chronic 2;H411		
2-Methylpentane-2,4-diol (Hexylene glycol)	30 - < 40	107-41-5 203-489-0	01-2119539582-35	603-053-00-3	
Classification: Skin Irrit. 2;H	315, Eye Ir	rit. 2;H319			
4-Hydroxy-2,2,6,6-tetramethylpiperidi n- N-oxyl	3 - < 10	2226-96-2 218-760-9	01-2119968566-20	-	
Classification: Acute Tox. 4	;H302, Eye	Dam. 1;H318, ST0	OT RE 2;H373		
Naphthalene	0,25 - < 1	91-20-3 202-049-5	-	601-052-00-2	#
Classification: Acute Tox. 4	;H302, Card	c. 2;H351, Aquatic	Acute 1;H400, Aquatic Chronic	c 1;H410	

The classification of the above substance(s) is given, including the hazard class, category code and hazard statements which are assigned in accordance with their physicochemical, health and environmental hazards. Please refer to section 16 where the full text of each relevant H-statement is listed.



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SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention immediately.

Skin contact Take off immediately all contaminated clothing.

Wash off immediately with plenty of water for at least 15 minutes.

Get medical attention if irritation develops and persists.

Eye contact Rinse immediately with plenty of water for at least 15 minutes.

Get medical attention if irritation persists after washing.

Ingestion Rinse mouth.

Do not give anything to eat or drink.

Do not induce vomiting.

Call a physician or poison control centre immediately.

4.2. Most important symptoms and effects, both acute and

delayed

Irritant effects.

Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

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

Not available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing

Dry chemical, carbon dioxide.

Foam.

Unsuitable extinguishing

media

media

Water.

5.2. Special hazards arising from the substance or mixture

Oxides of carbon and nitrogen evolved in fire.

5.3. Advice for firefighters

Special protective

Self contained breathing apparatus. (CEN: EN 137)

Protective gloves (CEN: EN 659)

Helmet (CEN: EN 443)

Special fire fighting

procedures

Use standard firefighting procedures and consider the hazards of other involved materials. Prevent spillage and fire-fighting water from entering in public sewers or the immediate

environment

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Wear protective clothing, gloves and safety goggles.

6.2. Environmental precautions Prevent from entering sewers or the immediate environment.

Do not empty into drains, dispose of this material and its container to hazardous or special waste

collection point.

6.3. Methods and material for containment and cleaning up

Absorb onto inert material and dispose of according to Hazardous Waste Regulations.

Remove small spills with plenty of water.

6.4. Reference to other

sections

Please refer also to section no. 8 'Exposure controls' for further information.

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Combustible.

Do not use around sparks or flames.

Earth containers during filling or discharge when performed at temperatures at or above the

product flash point.

Material can accumulate static charges which may cause an electrical spark (ignition source). Use

proper bonding and/or grounding procedures.

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7.2. Conditions for safe

Store in cool, well ventilated area. Store away from oxidisers.

storage, including any incompatibilities

Prevent electrostatic charge build-up by using common bonding and grounding techniques.

7.3. Specific end use(s)

Only for professional and industrial users

Shelf life

270 days

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Туре	Value	
2-Methylpentane-2,4-diol (Hexylene glycol) (CAS 107-41-5)	STEL	123 mg/m3	
·		25 ppm	
	TWA	123 mg/m3	
		25 ppm	
EU. Indicative Exposure Limit Valu	ues in Directives 91/322/EEC,	2000/39/EC, 2006/15/EC, 2009/161/EU	
Components	Туре	Value	
Naphthalene (CAS 91-20-3)	TWA	50 mg/m3	
		10 ppm	

Biological limit values

UK. EH40 Biological Monitoring Guidance Values (BMGVs)

Components	Value	Determinant	Specimen	Sampling Time
Naphthalene (CAS 9	1-20-3) 4 umol/mol	1-Hydroxypyre	Creatinine	*
		ne	in urine	

^{* -} For sampling details, please see the source document.

Recommended monitoring

Not available.

procedures

Derived no effect levels (DNELs)

Workers

Components	Value	Assessment factor Notes	
2-Methylpentane-2,4-diol (Hexylene glyco	l) (CAS 107-41-5)		
Long-term, Local, Inhalation Long-term, Systemic, Dermal Long-term, Systemic, Inhalation Short-term, Local, Inhalation	49 mg/m3 2 mg/kg 14 mg/m3 98 mg/m3	250 62.5	
4-Hydroxy-2,2,6,6-tetramethylpiperidin- N	-oxyl (CAS 2226-96-2)		
Long-term, Systemic, Dermal Long-term, Systemic, Inhalation Short-term, Systemic, Dermal	0,3 mg/kg 1,2 mg/m3 8 mg/kg	120 30 60	
Hydrocarbons, C10, aromatics, <1% naph	nthalene (CAS N/A)		
Long-term, Systemic, Dermal Long-term, Systemic, Inhalation	12,5 mg/kg/day 150 mg/m3		
adjeted no affect concentrations (DNECs	١		

Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor Notes
2-Methylpentane-2,4-diol (Hexylene gl	ycol) (CAS 107-41-5)	
Freshwater	0,429 mg/l	1000
Intermittent releases	4,29 mg/l	100
Marine water	0,0429 mg/l	10000
Secondary poisoning	100 mg/kg	90
Sediment (freshwater)	1,79 mg/kg	
Sediment (marine water)	0,179 mg/kg	
Soil	0,11 mg/kg	



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STP 20 mg/l 4-Hydroxy-2,2,6,6-tetramethylpiperidin- N-oxyl (CAS 2226-96-2)

Freshwater 0,03 mg/l 50 100 Intermittent releases 0,54 mg/l Marine water 500 $3 \mu g/l$

Sediment (freshwater) 0,126 mg/kg Sediment (marine water) 0,0169 mg/kg Soil 0,031 mg/kg STP 430 mg/l

8.2. Exposure controls

Appropriate engineering Adequate ventilation to maintain air contaminants below exposure limits.

Explosion proof exhaust ventilation should be used. controls

Provide eyewash station.

Individual protection measures, such as personal protective equipment

Splash proof chemical goggles. Eye/face protection

Wear safety glasses with side shields (or goggles).

CEN: EN 166

Skin protection

- Hand protection PVC gloves (Protection against unintentional short-term contact)

Neoprene gloves (Protection against unintentional short-term contact) Nitrile gloves (Protection against unintentional short-term contact) Viton gloves (Protection against unintentional short-term contact)

Penetration time: > 480 min Coating thickness: 0.71 mm CEN: EN 374-1/2/3/4; EN 420

- Other Protective clothing.

CEN: EN ISO 13688; EN ISO 6529; EN 14605

In case of insufficient ventilation, use a breathing mask with filter type: A2-P2 Respiratory protection

CEN: EN 136; EN 14387

Thermal hazards Not available.

Environmental exposure controls

Prevent from entering in public sewers or the immediate environment.

Do not empty into drains, dispose of this material and its container to hazardous or special waste

10

1

collection point.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Colour Dark brown Liquid Physical state

Odour Slight hydrocarbon Not available. **Odour threshold**

pH (concentrated product) Not available. pH in aqueous solution 7,1 (5% extract)

< -40 °C Melting point/freezing point Initial boiling point and boiling

177 °C

range

81 °C P-M(CC) Flash point **Evaporation rate** < 1(Ether = 1) Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits Not available.

(%)

Flammability limit - upper

Flammability limit - lower

Not available.

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Vapour pressure < 5 mm Hg Vapour pressure temp. 21 °C

Vapour density > 1 (Air = 1)

Relative density 0,91
Relative density temperature 21 °C

Solubility

Solubility (water) < 0,01 %

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not applicable.

Decomposition temperature Not available.

Viscosity 11 cps Viscosity temperature 21 °C

Explosive properties Not available.

Oxidising properties Not available.

9.2. Other information

Pour point < -37 °C Shelf life 270 days

VOC 95 % (Calculated)

SECTION 10: Stability and reactivity

10.1. Reactivity Not available.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

Not applicable.

10.4. Conditions to avoid Keep away from heat.

10.5. Incompatible materials Avoid contact with strong oxidisers.

10.6. Hazardous Oxides of carbon and nitrogen evolved in fire.

decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Product	Test Results
PETROFLO 20Y104E (PetroKare PK 40 AF) (Mixture)	Acute Dermal LD50 rabbit: > 2000 mg/kg (Calculated according to GHS additivity formula)
	Acute Oral LD50 rat: > 2000 mg/kg (Calculated according to GHS additivity formula)
Components	Test Results
2-Methylpentane-2,4-diol (Hexylene glycol) (107-41-5)	Acute Dermal LD50 Rabbit: > 5000 mg/kg
	Acute Oral LD50 Rat: 3700 mg/kg
4-Hydroxy-2,2,6,6-tetramethylpiperidin- N-oxyl (2226-96-2)	Acute Dermal LD50 Rabbit: > 2000 mg/kg
	Acute Oral LD50 Rat: 1053 mg/kg
Naphthalene (91-20-3)	Acute Dermal LD50 Rabbit: > 16000 mg/kg
	Acute Oral LD50 Rat: > 2000 mg/kg
Hydrocarbons, C10, aromatics, <1% naphthalene (N/A)	Acute Dermal LD50 Rabbit: > 2000 mg/kg
	Acute Inhalation LC50 Rat: > 4688 mg/m3 4 hours (Saturated vapor concentration)
	Acute Oral LD50 Rat: 7050 mg/kg

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



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Skin corrosion/irritation Causes skin irritation.

Serious eye

Causes serious eye damage.

damage/irritation

Respiratory or skin sensitisation

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.

Specific target organ toxicity -

single exposure

Narcotic effects.

May cause drowsiness or dizziness.

CarcinogenicityBased on available data, the classification criteria are not met.Germ cell mutagenicityBased on available data, the classification criteria are not met.Reproductive toxicityBased on available data, the classification criteria are not met.

Information on likely routes of exposure

Ingestion Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea,

and diarrhoea.

Inhalation Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

Skin contact Causes skin irritation.

Eye contact Causes serious eye damage.

Symptoms Not available.

Aspiration hazard May be fatal if swallowed and enters airways.

Mixture versus substance

information

None known.

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential Not available.

Partition coefficient n-octanol/water (log Kow)

Naphthalene 3,3

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil Not available.

12.5. Results of PBT and vPvB

assessment

Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Contaminated packaging According to Hazardous Waste Regulations.

EWC (European Waste Code) recommendation: 15 01 10

15 Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not

otherwise specified.

15 01 Packaging (including separately collected municipal packaging waste).

15 01 10 Packaging containing residues of or contaminated by dangerous substances. Depending on the origin and state of the waste, other EWC numbers may be applicable too.

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Disposal methods/information According to Hazardous Waste Regulations.

EWC (European Waste Code) recommendation: 16 03 05

16 Wastes not otherwise specified in the list.

16 03 Off-specification batches and unused products. 16 03 05 Organic wastes containing dangerous substances.

Depending on the origin and state of the waste, other EWC numbers may be applicable too.

SECTION 14: Transport information

ADR

14.1. UN number UN3082

14.2. UN proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hydrocarbons, C10,

name aromatics, <1% naphthalene, Mixture)

14.3. Transport hazard class(es)

Class 9
Subsidiary risk Tunnel restriction code (-)

14.4. Packing group III

14.5. Environmental hazards Yes

14.6. Special precautions Not available.

for user

RID

14.1. UN number UN3082

14.2. UN proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hydrocarbons, C10,

name aromatics, <1% naphthalene, Mixture)

14.3. Transport hazard class(es)

Class 9
Subsidiary risk
14.4. Packing group III

14.5. Environmental hazards Yes

14.6. Special precautions Not available.

for user

ADN

14.1. UN number UN3082

14.2. UN proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hydrocarbons, C10,

name aromatics, <1% naphthalene, Mixture)

14.3. Transport hazard class(es)

Class 9
Subsidiary risk 14.4. Packing group III
14.5. Environmental hazards Yes

14.6. Special precautions Not available.

for user

IATA

14.1. UN number UN3082

14.2. UN proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hydrocarbons, C10,

name aromatics, <1% naphthalene, Mixture)

14.3. Transport hazard class(es)

Class 9
Subsidiary risk
14.4. Packing group III

14.5. Environmental hazards Yes

ERG CodeNot available. **14.6. Special precautions**Not available.

for user

IMDG

14.1. UN number UN3082

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14.2. UN proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hydrocarbons, C10,

name aromatics, <1% naphthalene, Mixture)

14.3. Transport hazard class(es)

Class 9
Subsidiary risk 14.4. Packing group III
14.5. Environmental hazards

Marine pollutantYesEmSF-A, S-F14.6. Special precautionsNot available.

for user

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

This substance/mixture is not intended to be transported in bulk.

ADN; ADR; IATA; IMDG; RID



Marine pollutant



SECTION 15: Regulatory information

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

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

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Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Naphthalene (CAS 91-20-3)

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Naphthalene (CAS 91-20-3)

National regulations Not available.

15.2. Chemical safety Not available.

assessment

Inventory status

Country(s) or region Inventory name On inventory (yes/no)*

Europe European Inventory of Existing Commercial Chemical Yes

Substances (EINECS)

Europe European List of Notified Chemical Substances (ELINCS)

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SECTION 16: Other information

List of abbreviations

EC-No: European Commission Number

COD: Chemical Oxygen Demand

IATA: International Air Transport Association

CAS: Chemical Abstract Service.

CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification,

labeling and packaging of substances and mixtures.

CEN: European Committee for Standardization (Comité Européen de Normalisation).

TWA: Time Weighted Average. STEL: Short-term Exposure Limit.

LD50: Lethal Dose 50%.

LC50: Lethal Concentration 50%. EC50: Effective Concentration 50%. NOEL: No observed effect level. BOD: Biochemical oxygen demand. TOC: Total Organic Carbon.

ADR: European agreement concerning the international carriage of dangerous goods by road

(Accord européen relatif transport des merchandises dangereuses par route).

ADN: European Agreement concerning the International Carriage of Dangerous Go

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures).

 ${\bf IMDG\ Code:\ International\ Maritime\ Dangerous\ Goods\ Code.}$

RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer).

References Safety data sheets of raw materials.

Information on evaluation method leading to the classification of mixture

The physical, health and environmental hazards of this mixture are assessed by applying the classification criteria for each hazard class or differentiation in Parts 2 to 5 of Annex I to Regulation

(EC) No 1272/2008 (CLP).

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Nο



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Full text of any H-statements not written out in full under Sections 2 to 15

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H318 Causes serious eye damage. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure by ingestion.

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.

Revision information SECTION 8: Exposure controls/personal protection: - Hand protection

Physical & Chemical Properties: Multiple Properties Toxicological Information: Toxicological Data SECTION 11: Toxicological information: Acute toxicity SECTION 11: Toxicological information: Carcinogenicity

SECTION 11: Toxicological information: Carcinogenicity
SECTION 11: Toxicological information: Germ cell mutagenicity
SECTION 11: Toxicological information: Reproductive toxicity

SECTION 11: Toxicological information: Respiratory or skin sensitisation

SECTION 11: Toxicological information: Specific target organ toxicity - repeated exposure

Transport Information: Material Transportation Information SECTION 16: Other information: Further information

Training information Provide training on safe handling while considering the type of application and exposure scenarios. **Based on EC Directive** / (EC) No 1907/2006 (REACH)

based on EC Directive /

Regulations

(EC) No 1907/2008 (N

(EU) No 1357/2014 (EU) 2015/830

Further information Correction in Section: 8,11,16

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