## **SAFETY DATA SHEET**



SP4499 HS420 Clear Coat 3:1

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

1.1 Product identifier

Product name : SP4499 HS420 Clear Coat 3:1

Product type : Liquid.

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

**Identified uses** 

Use in coatings - Clearcoat

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

Valspar b.v. Zuiveringweg 89 8243 PE Lelystad The Netherlands

valspar

tel: +31 (0)320 292200 fax: +31 (0)320 292201

e-mail address of person responsible for this SDS

: msds@valspar.com

#### **National contact**

GPS Automotive Lelystad tel: +31 (0)320 292288 fax: +31 (0)320 292201

#### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

Telephone number : Angola +01-813-248-0573

Azerbaijan +01-813-248-0573 Cambodia +01-813-248-0573 Côte d'Ivoire +01-813-248-0573 Ethiopia +01-813-248-0573

French Polynesia +01-813-248-0573

Georgia +01-813-248-0573 Ghana +01-813-248-0573 India 000-800-100-4086 Kazakhstan +01-813-248-0573 Kenya +01-813-248-0573 Madagascar +01-813-248-0573 Mozambique +01-813-248-0573 Nigeria +01-813-248-0573 Philippines 1-800-1-116-0912 Sierra Leone +01-813-248-0573 Singapore +65-31585003 South Africa +27-875502286 Tanzania +01-813-248-0573 Thailand +66-21055749 Uganda +01-813-248-0573

<u>Supplier</u>

Telephone number : Call: +31 (0)320 292200 (during daytime)

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#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

**Product definition**: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 Skin Sens. 1, H317 STOT SE 3, H336 Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

#### Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : R10

R66, R67 R52/53

Physical/chemical

hazards

: Flammable.

**Human health hazards**: Repeated exposure may cause skin dryness or cracking. Vapours may cause

drowsiness and dizziness.

**Environmental hazards**: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Hazard pictograms





Signal word : Warning

**Hazard statements**: Flammable liquid and vapour.

May cause an allergic skin reaction. May cause drowsiness or dizziness.

Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

Prevention: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot

surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.

Avoid release to the environment.

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

ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water or shower.

Storage : Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Hazardous ingredients : n-butyl acetate

Solvent naphtha (petroleum), light arom. Hydroxyphenyl-benzotriazole derivate I Hydroxyphenyl-benzotriazole derivate II

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate methacrylic acid, monoester with propane-1,2-diol methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Supplemental label

elements

: Not applicable.

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### **SECTION 2: Hazards identification**

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

**Special packaging requirements** 

Containers to be fitted with child-resistant

: Not applicable.

: Not applicable.

fastenings

Tactile warning of danger : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification

: None known.

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

#### 3.2 Mixtures : Mixture

			Classification		
Product/ingredient name	Identifiers	<b>w</b> %	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥10 - ≤25	R10 R66, R67	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1]
5-methylhexan-2-one	REACH #: 01-2119472300-51 EC: 203-737-8 CAS: 110-12-3 Index: 606-026-00-4	≤10	R10 Xn; R20	Flam. Liq. 3, H226 Acute Tox. 4, H332	[1] [2]
Solvent naphtha (petroleum), light arom.	REACH #:	≤9.2	R10 Xn; R65 Xi; R37 R66, R67 N; R51/53	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
1,2,4-trimethylbenzene	REACH #: 01-2119472135-42 EC: 202-436-9 CAS: 95-63-6 Index: 601-043-00-3	≤5	R10 Xn; R20 Xi; R36/37/38 N; R51/53	Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411	[1] [2]
2-butoxyethyl acetate	REACH #: 01-2119475112-47 EC: 203-933-3 CAS: 112-07-2 Index: 607-038-00-2	≤5	Xn; R20/21	Acute Tox. 4, H312 Acute Tox. 3, H331	[1] [2]
2-methylpropan-2-ol	EC: 200-889-7 CAS: 75-65-0 Index: 603-005-00-1	≤2.9	F; R11 Xn; R20 Xi; R36/37	Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H335	[1]
mesitylene	REACH #: 01-2119463878-19 EC: 203-604-4	≤1.6	R10 Xi; R37 N; R51/53	Flam. Liq. 3, H226 STOT SE 3, H335 Aquatic Chronic 2,	[1] [2]

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

	CAS: 108-67-8 Index: 601-025-00-5			H411	
Hydroxyphenyl- benzotriazole derivate I	REACH #: 01-0000015075-76	≤0.3	R43 N; R51/53	Skin Sens. 1A, H317	[1]
	CAS: 104810-48-2		,	Aquatic Chronic 2, H411	
Hydroxyphenyl- benzotriazole derivate	REACH #: 01-0000015075-76	≤0.3	R43 N; R51/53	Skin Sens. 1A, H317	[1]
II	CAS: 104810-47-1			Aquatic Chronic 2, H411	
bis(1,2,2,6, 6-pentamethyl-	REACH #: 01-2119537297-32	≤0.3	R43 N; R50/53	Skin Sens. 1A, H317	[1]
4-piperidyl) sebacate	EC: 255-437-1 CAS: 41556-26-7			Aquatic Acute 1, H400 (M=1)	
				Aquatic Chronic 1, H410 (M=1)	
Hydroxypropyl methacrylate	EC: 248-666-3 CAS: 27813-02-1	≤0.3	Xi; R36/38	Eye Irrit. 2, H319 Skin Sens. 1, H317	[1]
			See Section 16 for the full text of the R-phrases declared above.	See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

Ingestion

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

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

#### 4.1 Description of first aid measures

General : In

: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery

position and seek medical advice.

**Eye contact** : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

**Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by

trained personnel.

**Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

: If swallowed, seek medical advice immediately and show the container or label.

Keep person warm and at rest. Do NOT induce vomiting.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person

mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

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

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains Hydroxyphenyl-benzotriazole derivate I, Hydroxyphenyl-benzotriazole derivate II, bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methacrylic acid, monoester with propane-1,2-diol, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.

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

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

See toxicological information (Section 11)

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media

: Recommended: alcohol-resistant foam, CO2, powders, water spray.

**Unsuitable extinguishing** media

: Do not use water jet.

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

**Hazards from the** substance or mixture : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

**Hazardous thermal** decomposition products

: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

#### 5.3 Advice for firefighters

**Special protective actions** for fire-fighters

: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

**Special protective** equipment for fire-fighters : Appropriate breathing apparatus may be required.

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

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

For non-emergency personnel

: Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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

## **6.2 Environmental precautions**

: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

# 6.3 Methods and material for containment and cleaning up

: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

## 6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

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

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

## 7.1 Precautions for safe handling

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.

Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8).

Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

Do not allow to enter drains or watercourses.

#### Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

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

Store in accordance with local regulations.

#### Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

#### Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### 7.3 Specific end use(s)

**Recommendations**: Not available.

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

Industrial sector specific : Not available.

solutions

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

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
5-methylhexan-2-one	EU OEL (Europe, 12/2009). Notes: list of indicative
	occupational exposure limit values
	TWA: 95 mg/m³ 8 hours.
	TWA: 20 ppm 8 hours.
1,2,4-trimethylbenzene	80/1107/EEC (Europe).
	CEIL: 20 ppm
	CEIL: 100 mg/m³
	EU OEL (Europe, 12/2009). Notes: list of indicative
	occupational exposure limit values
	TWA: 100 mg/m <sup>3</sup> 8 hours.
	TWA: 20 ppm 8 hours.
2-butoxyethyl acetate	EU OEL (Europe, 12/2009). Absorbed through skin. Notes: list
	of indicative occupational exposure limit values
	STEL: 333 mg/m³ 15 minutes.
	STEL: 50 ppm 15 minutes.
	TWA: 133 mg/m³ 8 hours.
	TWA: 20 ppm 8 hours.
mesitylene	EU OEL (Europe, 12/2009). Notes: list of indicative
	occupational exposure limit values
	TWA: 100 mg/m³ 8 hours.
	TWA: 20 ppm 8 hours.

## procedures

**Recommended monitoring**: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
n-butyl acetate	DNEL	Long term Inhalation	300 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	600 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	300 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	600 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Dermal	11 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic

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## SECTION 8: Exposure controls/personal protection

	DNEL	Long term Inhalation	35.7 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Short term	300 mg/m <sup>3</sup>	Consumers	Systemic
		Inhalation			
	DNEL	Long term Inhalation	35.7 mg/m <sup>3</sup>	Consumers	Local
	DNEL	Short term	300 mg/m <sup>3</sup>	Consumers	Local
	DIVLE	Inhalation	ooo mg/m	Consumers	Local
	DNEL	Long term Dermal	6 mg/kg bw/day	Consumers	Systemic
	DNEL	Short term Dermal	6 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Oral	2 mg/kg bw/day	Consumers	Systemic
	DNEL	Short term Oral	2 mg/kg bw/day	Consumers	Systemic
5-methylhexan-2-one	DNEL	Short term Inhalation	818 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	8 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	95 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	733 mg/m³	Human via the environment	Systemic
	DNEL	Long term Oral	7.25 mg/ kg bw/day	Human via the environment	Systemic
	DNEL	Long term Dermal	7.25 mg/ kg bw/day	Human via the environment	Systemic
	DNEL	Long term Inhalation	25.2 mg/m³	Human via the environment	Systemic
Solvent naphtha (petroleum), light arom.	DNEL	Long term Dermal	25 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	150 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	11 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	32 mg/m³	Consumers	Systemic
		Long term Oral	11 mg/kg bw/day	Consumers	Systemic
2-butoxyethyl acetate	DNEL	Short term Inhalation	333 mg/m³	Workers	Local
	DNEL	Short term Inhalation	775 mg/m³	Workers	Systemic
	DNEL	Short term Dermal	102 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	133 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	102 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	166 mg/m³	Consumers	Local
	DNEL	Short term Inhalation	499 mg/m³	Consumers	Systemic
	DNEL	Short term Dermal	27 mg/kg bw/day	Consumers	Systemic
	DNEL	Short term Oral	18 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	67 mg/m³	Consumers	Systemic
	DNEL	Long term Dermal	36 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Oral	4.3 mg/kg	Consumers	Systemic

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

DNEL Long term Dermal 2 mg/kg bw/day  DNEL Long term Inhalation  DNEL Long term Dermal 1 mg/kg bw/day  DNEL Long term Dermal 1 mg/kg bw/day  DNEL Long term Oral 0.5 mg/kg bw/day  Consumers Systemic Sys	bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	DNEL	Long term Inhalation	bw/day 3.53 mg/m³	Workers	Systemic	
DNEL Long term Oral 0.5 mg/kg Consumers Systemic    DNEL Long term Oral   0.5 mg/kg Consumers   Systemic		DNEL	Long term Dermal	0 0	Workers	Systemic	
DNEL Long term Oral bw/day 0.5 mg/kg Consumers Systemic		DNEL	9	0.87 mg/m <sup>3</sup>	Consumers	Systemic	
		DNEL	Long term Dermal		Consumers	Systemic	
		DNEL	Long term Oral		Consumers	Systemic	

#### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
n-butyl acetate	Fresh water	0.18 mg/l	-
	Marine	0.018 mg/l	-
	Fresh water sediment	0.981 mg/kg	-
	Marine water sediment	0.0981 mg/kg	-
	Soil	0.0903 mg/kg	-
	Sewage Treatment Plant	35.6 mg/l	-
5-methylhexan-2-one	Fresh water	0.1 mg/l	-
-	Marine water	0.01 mg/l	-
	Fresh water sediment	1.12 mg/kg	-
	Marine water sediment	0.112 mg/kg	-
	Soil	0.166 mg/kg	-
	Sewage Treatment Plant	100 mg/l	-
2-butoxyethyl acetate	Fresh water	0.304 mg/l	-
	Marine	0.0304 mg/l	-
	Fresh water sediment	2.03 mg/kg	-
	Marine water sediment	0.203 mg/kg	-
	Soil	0.68 mg/kg	-
	Sewage Treatment Plant	90 mg/l	-
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	Fresh water	0.0022 mg/l	-
	Fresh water sediment	1.05 mg/kg	-
	Marine water	0.00022 mg/l	-
	Marine water sediment	0.11 mg/kg	-
	Sewage Treatment Plant	1 mg/l	-
	Soil	0.21 mg/kg	-

#### 8.2 Exposure controls

Appropriate engineering controls

: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

#### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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

#### **Eye/face protection**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: chemical splash goggles and/or face shield.

## Skin protection Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): Recommended EN 374 polyvinyl alcohol (PVA) >= 0.7 mm

< 1 hour (breakthrough time): Conditionally suitable materials for protective gloves; EN 374: Nitrile rubber - NBR (>= 0.35 mm). Only suitable as splash protection. Only suitable for brief exposure. In the event of contamination, change protective gloves immediately.

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

#### **Body protection**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods. Recommended: Cotton or cotton/synthetic overalls or coveralls are normally suitable.

#### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### **Respiratory protection**

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: EN 405:2001 + A1:2009 organic vapour (Type A) and particulate filter FFA2P3 R D

## Environmental exposure controls

: Do not allow to enter drains or watercourses.

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

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

**Appearance** 

Physical state : Liquid.
Colour : Clear.

Odour : Not available.
Odour threshold : Not available.

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

: Not available. Melting point/freezing point : Not available. Initial boiling point and : >100°C

boiling range

Flash point : Closed cup: 36°C : Not available. **Evaporation rate** Upper/lower flammability or : Not available.

explosive limits

Vapour pressure : Not available. : 4 [Air = 1] Vapour density : 0.992 Relative density

Solubility(ies) : Insoluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/ : Not available.

**Auto-ignition temperature** : Not available. **Decomposition temperature** : Not available. : Not available. **Viscosity Explosive properties** : Not available. **Oxidising properties** : Not available.

#### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products.

10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions:

oxidising agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption

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## **SECTION 11: Toxicological information**

through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains Hydroxyphenyl-benzotriazole derivate I, Hydroxyphenyl-benzotriazole derivate II, bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methacrylic acid, monoester with propane-1,2-diol, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
n-butyl acetate	LC50 Inhalation Vapour	Rat	>21.1 mg/l	4 hours
	LD50 Dermal	Rabbit	>14112 mg/kg	-
	LD50 Oral	Rat	10760 mg/kg	-
5-methylhexan-2-one	LD50 Oral	Rat	5657 mg/kg	-
Solvent naphtha	LC50 Inhalation Vapour	Rat	>6193 mg/l	4 hours
(petroleum), light arom.			_	
	LD50 Dermal	Rabbit	>3160 mg/kg	-
	LD50 Oral	Rat	3492 mg/kg	-
1,2,4-trimethylbenzene	LD50 Oral	Rat	>5000 mg/kg	-
2-butoxyethyl acetate	LC50 Inhalation Vapour	Rat	>3.91 mg/l	4 hours
	LD50 Dermal	Rabbit	1500 mg/kg	-
	LD50 Oral	Rat	1880 mg/kg	-
2-methylpropan-2-ol	LD50 Oral	Rat	3500 mg/kg	-
Hydroxyphenyl-	LD50 Dermal	Rat	>2000 mg/kg	-
benzotriazole derivate I				
	LD50 Oral	Rat	>5000 mg/kg	-
Hydroxyphenyl-	LD50 Dermal	Rat	>2000 mg/kg	-
benzotriazole derivate II				
	LD50 Oral	Rat	>5000 mg/kg	-
bis(1,2,2,6,6-pentamethyl-	LD50 Oral	Rat	>3230 mg/kg	-
4-piperidyl) sebacate				

**Conclusion/Summary** 

: Not available.

#### **Acute toxicity estimates**

Route	ATE value		
	37504.7 mg/kg 41.04 mg/l		

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
5-methylhexan-2-one	Eyes - Mild irritant	Rabbit	-	24 hours 100 microliters	-
2-butoxyethyl acetate	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
mesitylene	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-

**Conclusion/Summary** 

: Not available.

**Sensitisation** 

**Conclusion/Summary**: Not available.

**Mutagenicity** 

**Conclusion/Summary**: Not available.

Carcinogenicity

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## **SECTION 11: Toxicological information**

**Conclusion/Summary**: Not available.

**Reproductive toxicity** 

**Conclusion/Summary**: Not available.

**Teratogenicity** 

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
n-butyl acetate	Category 3	Not applicable.	Narcotic effects
Solvent naphtha (petroleum), light arom.	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
1,2,4-trimethylbenzene	Category 3	Not applicable.	Respiratory tract irritation
2-methylpropan-2-ol	Category 3	Not applicable.	Respiratory tract irritation
mesitylene	Category 3	Not applicable.	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Product/ingredient name	Result
Solvent naphtha (petroleum), light arom.	ASPIRATION HAZARD - Category 1

Other information : Not available.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
n-butyl acetate	Acute EC50 397 mg/l	Algae - Selenastrum capricornutum	72 hours
	Acute EC50 44 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 32 mg/l	Crustaceans - Artemia salina	48 hours
	Acute LC50 18 mg/l	Fish - Pimephales promelas	96 hours
	Acute NOEC 200 mg/l	Algae	72 hours
5-methylhexan-2-one	Acute EC50 >100 mg/l	Aquatic plants	72 hours
•	Acute LC50 159000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Solvent naphtha (petroleum), light arom.	Acute EC50 2.9 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
_	Acute EC50 3.2 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 9.2 mg/l	Fish - Oncorhynchus mykiss	96 hours
	Acute NOEC >1 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
1,2,4-trimethylbenzene	Acute EC50 1 to 10 mg/l	Fish	96 hours
2-butoxyethyl acetate	Acute EC50 1570 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 37 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 22 mg/l	Fish - Pimephales promelas	96 hours
Hydroxyphenyl- benzotriazole derivate I	Acute LC50 2.8 mg/l	Fish	96 hours

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## **SECTION 12: Ecological information**

Hydroxyphenyl-	Acute LC50 2.8 mg/l	Fish	96 hours
benzotriazole derivate II bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	Acute EC50 0.22 mg/l	Algae	72 hours
, p.ponejiy constant	Acute LC50 0.9 mg/l Acute NOEC 6.3 mg/l	Fish Daphnia	96 hours 21 days

**Conclusion/Summary**: Not available.

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
n-butyl acetate	OECD 301D Ready Biodegradability - Closed Bottle Test	>80 % - 5 days	-	-
5-methylhexan-2-one Solvent naphtha (petroleum), light arom.	-	67 % - Readily - 28 days 78 % - Readily - 28 days	-	- Fresh water

**Conclusion/Summary**: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
n-butyl acetate 5-methylhexan-2-one Solvent naphtha (petroleum), light arom.		- 67%; 28 day(s) -	Readily Readily Readily
2-butoxyethyl acetate	-	90.4%; 28 day(s)	_

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
n-butyl acetate	2.3	-	low
5-methylhexan-2-one	1.88	-	low
1,2,4-trimethylbenzene	3.63	243	low
2-butoxyethyl acetate	1.51	-	low
2-methylpropan-2-ol	0.317	5.01	low
mesitylene	3.42	161	low
Hydroxypropyl methacrylate	0.97	-	low

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility

: Not available.

#### 12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

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## **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** 

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

#### **Hazardous waste**

**Disposal considerations** 

- : The classification of the product may meet the criteria for a hazardous waste.
  - Do not allow to enter drains or watercourses.

    Dispose of according to all federal, state and local applicable regulations.

    If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

    For further information, contact your local waste authority.

#### **Packaging**

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

#### **Disposal considerations**

: Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.

Empty containers must be scrapped or reconditioned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions.

Type of packaging		European waste catalogue (EWC)
CEPE Paint Guidelines	15 01 10*	packaging containing residues of or contaminated by
		hazardous substances

#### Special precautions

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINTPAINT	PAINT	Paint
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	No.	Yes.	No.	No.

## **SECTION 14: Transport information**

Additional	Hazard identification	The product is only	Emergency	Passonger and
				Passenger and
information	<u>number</u>	regulated as an	schedules (EmS)	Cargo Aircraft
	30	environmentally	F-E, _S-E_	Quantity limitation: 60
		hazardous substance		L
	Limited quantity	when transported in	Special provisions	Packaging
	5 L	tank vessels.	163, 223, 955	instructions: 355
				Cargo Aircraft Only
	Special provisions	Special provisions		Quantity limitation:
	163, 640E, 650	163, 640E, 650		220 L
				Packaging
	Tunnel code			instructions: 366
	(D/E)			<u>Limited Quantities -</u>
	,			Passenger Aircraft
				Quantity limitation: 10
				L
				Packaging
				instructions: Y344
				Special provisions
				A3, A72

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code : Not applicable.

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

**Annex XIV** 

None of the components are listed.

Substances of very high concern

None of the components are listed.

**Annex XVII - Restrictions** : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

VOC : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the

product label and/or technical data sheet for further information.

**Europe inventory** : All components are listed or exempted.

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

#### **Seveso Directive**

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

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## **SECTION 15: Regulatory information**

Industrial use

: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

#### **International regulations**

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

**International lists** 

**National inventory** 

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : Not determined.

Japan : Japan inventory (ENCS): Not determined.

Japan inventory (ISHL): Not determined.

Malaysia : Not determined.

New Zealand : All components are listed or exempted.

Philippines : All components are listed or exempted.

Republic of Korea : All components are listed or exempted.

Taiwan : Not determined.
Turkey : Not determined.

United States : All components are listed or exempted.

15.2 Chemical safety

assessment

: No Chemical Safety Assessment has been carried out.

### **SECTION 16: Other information**

CEPE code :

Indicates information that has changed from previously issued version.

**Abbreviations and** 

acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/20081

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

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#### **SECTION 16: Other information**

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Sens. 1, H317	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 3, H412	Calculation method

#### Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
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.

#### Full text of classifications [CLP/GHS]

Acute Tox. 3, H331	ACUTE TOXICITY (inhalation) - Category 3
Acute Tox. 4, H312	ACUTE TOXICITY (dermal) - Category 4
Acute Tox. 4, H332	ACUTE TOXICITY (inhalation) - Category 4
Aquatic Acute 1, H400	ACUTE AQUATIC HAZARD - Category 1
Aquatic Chronic 1, H410	LONG-TERM AQUATIC HAZARD - Category 1
Aquatic Chronic 2, H411	LONG-TERM AQUATIC HAZARD - Category 2
Aquatic Chronic 3, H412	LONG-TERM AQUATIC HAZARD - Category 3
Asp. Tox. 1, H304	ASPIRATION HAZARD - Category 1
EUH066	Repeated exposure may cause skin dryness or cracking.
Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2, H225	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3, H226	FLAMMABLE LIQUIDS - Category 3
Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1, H317	SKIN SENSITISATION - Category 1
Skin Sens. 1A, H317	SKIN SENSITISATION - Category 1A
STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE
	(Respiratory tract irritation) - Category 3
STOT SE 3, H336	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE
	(Narcotic effects) - Category 3
	, , , , , , , , , , , , , , , , , , , ,

#### Full text of abbreviated R phrases

R11- Highly flammable.

R10- Flammable.

R20- Harmful by inhalation.

R20/21- Harmful by inhalation and in contact with skin.

R65- Harmful: may cause lung damage if swallowed.

R37- Irritating to respiratory system.

R36/37- Irritating to eyes and respiratory system.

R36/38- Irritating to eyes and skin.

R36/37/38- Irritating to eyes, respiratory system and skin.

R43- May cause sensitisation by skin contact.

R66- Repeated exposure may cause skin dryness or cracking.

R67- Vapours may cause drowsiness and dizziness.

R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Full text of classifications [DSD/DPD]

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### **SECTION 16: Other information**

F - Highly flammable

Xn - Harmful

Xi - Irritant

N - Dangerous for the environment

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#### **Notice to reader**

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.

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