



Printing date 07/06/2015

Safety Data Sheet

acc. to OSHA HCS

Reviewed on 07/06/2015

* 1 Identification

- Product identifier
- Trade name: **KRISTAL HS Clear Coat LV 4:1**
- Article number: 9100
- Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
- Application of the substance / the mixture Lacquer
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
Kristal Coatings B.V.
Platinawerf 22B
6641 TL Beuningen - Holland
Tel: 0031 24 67 526 36
Fax: 0031 24 67 533 60
- Information department: Product safety department: info@kristalcoatings.nl
- Emergency telephone number: 0031 24 67 526 36

* 2 Hazard(s) identification

- Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to the hearing organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

- Label elements

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

- Hazard pictograms



GHS02



GHS07



GHS08

- Signal word Danger

- Hazard-determining components of labeling:

xylene
ethylbenzene
acetone
Hydrocarbons, C9, aromatics

- Hazard statements

Highly flammable liquid and vapor.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of causing cancer.
May cause respiratory irritation. May cause drowsiness or dizziness.

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May cause damage to the hearing organs through prolonged or repeated exposure.

· **Precautionary statements**

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

Take precautionary measures against static discharge.

Do not breathe mist/vapours/spray.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Other hazards**

· **Results of PBT and vPvB assessment**

· PBT: Not applicable.

· vPvB: Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

| | | |
|---------------------------|--|----------|
| CAS: 67-64-1 | acetone | 10-25% |
| EINECS: 200-662-2 | | |
| Reg.nr.: 01-2119471330-49 | | |
| 05-2114366599-29 | | |
| CAS: 1330-20-7 | xylene | 10-25% |
| EINECS: 215-535-7 | | |
| Reg.nr.: 01-2119488216-32 | | |
| 01-2119486136-34 | | |
| 01-2119555267-33 | | |
| CAS: 100-41-4 | ethylbenzene | 2.5-10% |
| EINECS: 202-849-4 | | |
| Reg.nr.: 01-2119489370-35 | | |
| CAS: 64742-95-6 | Hydrocarbons, C9, aromatics | 2.5-10% |
| EC number: 918-668-5 | | |
| Reg.nr.: 01-2119455851-35 | | |
| CAS: 98-56-6 | 4-chloro-alpha,alpha,alpha-trifluorotoluene | 2.5-10% |
| EINECS: 202-681-1 | | |
| Reg.nr.: 1735902 | | |
| CAS: 123-86-4 | n-butyl acetate | 0.5-2.5% |
| EINECS: 204-658-1 | | |
| Reg.nr.: 01-2119485493-29 | | |
| ELINCS: 400-830-7 | Derivative of Benzotriazol | ≤ 0.5% |
| Reg.nr.: 01-0000015075-76 | | |
| CAS: 41556-26-7 | bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate | ≤ 0.5% |
| EINECS: 255-437-1 | | |
| Reg.nr.: 01-2119491304-40 | | |

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* 4 First-aid measures

- Description of first aid measures
- General information:
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- After inhalation:
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Remove contactlenses.
- After swallowing:
Do not induce vomiting; immediately call for medical help.
Rinse mouth.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: CO₂ or powder. Fight larger fights with alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture Carbon monoxide (CO)
- Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
- Environmental precautions:
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

* 7 Handling and storage

- Handling:
- Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- Information about protection against explosions and fires:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles:
Store in a cool location.
Store only in the original receptacle.
- Information about storage in one common storage facility: Store away from oxidizing agents.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Storage class: 3

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· Specific end use(s) No further relevant information available.

* 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

67-64-1 acetone

PEL 2400 mg/m³, 1000 ppm

REL 590 mg/m³, 250 ppm

TLV Short-term value: (1782) NIC-1187 mg/m³, (750) NIC-500 ppm

Long-term value: (1188) NIC-475 mg/m³, (500) NIC-200 ppm

BEI

1330-20-7 xylene

PEL 435 mg/m³, 100 ppm

REL Short-term value: 655 mg/m³, 150 ppm

Long-term value: 435 mg/m³, 100 ppm

TLV Short-term value: 651 mg/m³, 150 ppm

Long-term value: 434 mg/m³, 100 ppm

BEI

100-41-4 ethylbenzene

PEL 435 mg/m³, 100 ppm

REL Short-term value: 545 mg/m³, 125 ppm

Long-term value: 435 mg/m³, 100 ppm

TLV Short-term value: 543 mg/m³, 125 ppm

Long-term value: 87 mg/m³, 20 ppm

BEI

123-86-4 n-butyl acetate

PEL 710 mg/m³, 150 ppm

REL Short-term value: 950 mg/m³, 200 ppm

Long-term value: 710 mg/m³, 150 ppm

TLV Short-term value: 950 mg/m³, 200 ppm

Long-term value: 713 mg/m³, 150 ppm

· Ingredients with biological limit values:

67-64-1 acetone

BEI 50 mg/L

Medium: urine

Time: end of shift

Parameter: Acetone (nonspecific)

1330-20-7 xylene

BEI 1.5 g/g creatinine

Medium: urine

Time: end of shift

Parameter: Methylhippuric acids

100-41-4 ethylbenzene

BEI 0.7 g/g creatinine

Medium: urine

Time: end of shift at end of workweek

Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)

Medium: end-exhaled air

Time: not critical

Parameter: Ethyl benzene (semi-quantitative)

· Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

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Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

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

Filter AX

· **Protection of hands:**



Protective gloves

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

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

· **Material of gloves**

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

Butyl rubber, BR

· **Penetration time of glove material**

Thickness of the gloves ≥ 0.625 mm (acetone)

Value for the permeation: Level ≥ 480 min (acetone)

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

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Solvent resistant protective clothing

* 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Fluid

Color: Clear

· Odor: Characteristic

· Odour threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 56 °C (133 °F)

· Flash point: -17 °C (1 °F)

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 430 °C (806 °F)

· Decomposition temperature: Not determined.

· Auto igniting: Product is not selfigniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· Explosion limits:

Lower: 1.1 Vol %

Upper: 13.0 Vol %

· Vapor pressure at 20 °C (68 °F): 233 hPa (175 mm Hg)

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| | |
|--|--|
| · Density at 20 °C (68 °F): | 0.94 g/cm ³ (7.844 lbs/gal) |
| · Relative density | Not determined. |
| · Vapour density | Not determined. |
| · Evaporation rate | Not determined. |
| · Solubility in / Miscibility with Water: | Slightly soluble. |
| · Partition coefficient (n-octanol/water): | Not determined. |
| · Viscosity: | |
| Dynamic: | Not determined. |
| Kinematic at 20 °C (68 °F): | 22 s (DIN 53211/4) |
| · Solvent content: | |
| Organic solvents: | 59.8 % |
| VOC content: | 59.8 % |
| | 312.0 g/l / 2.60 lb/gl |
| · Other information | No further relevant information available. |

* 10 Stability and reactivity

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions Reacts with strong oxidizing agents.
- Conditions to avoid High temperatures.
- Incompatible materials: Oxidizing agents.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
- LD/LC50 values that are relevant for classification:

67-64-1 acetone

Oral LD50 >2000 mg/kg (rat)
 Dermal LD50 >2000 mg/kg (rabbit)
 Inhalative LC50/4h > 20 mg/l (rat)

1330-20-7 xylene

Oral LD50 3523 mg/kg (rat)
 Dermal LD50 12126 mg/kg bw (rabbit)
 Inhalative LC50/4h 27124 mg/m³ (rat)

100-41-4 ethylbenzene

Oral LD50 3500 mg/kg (rat)
 Dermal LD50 17800 mg/kg (rabbit)

64742-95-6 Hydrocarbons, C9, aromatics

Oral LD50 3592 mg/kg (rat)
 Dermal LD50 >3160 ml/kg (rabbit)
 Inhalative LC50/4h >6193 ppm (rat)

98-56-6 4-chloro-alpha,alpha,alpha-trifluorotoluene

Oral LD50 11500 mg/kg (mouse)
 13000 mg/kg (rat)

123-86-4 n-butyl acetate

Oral LD50 10760 mg/kg (rat) (OECD 423)
 Dermal LD50 >14112 mg/kg (rabbit) (OECD 402)
 Inhalative LC50/4h 23.4 mg/l (rat) (OECD 403 in vivo, aerosol)

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Derivative of Benzotriazol

Oral LD50 >5000 mg/kg (rat) (OESO 401)

Dermal LD50 >2000 ml/kg (rat) (OESO 402)

Inhalative LC50/4h >5.8 mg/l (rat) (OESO 403)

· **Primary irritant effect:**· **on the skin:** Irritant to skin and mucous membranes.· **on the eye:** Irritating effect.· **Sensitization:** No sensitizing effects known.· **Additional toxicological information:**

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

Harmful

Irritant

· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

1330-20-7 xylene: 3

100-41-4 ethylbenzene: 2B

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

*** 12 Ecological information**· **Toxicity**· **Aquatic toxicity:****67-64-1 acetone**

EC50 8800 mg/l (daphnia magna)

EC50/96h 8300 mg/l (lepomis macrochirus)

IC50 >100 mg/l (algae)

>100 mg/l (fish)

1330-20-7 xylene

EC50/48h 1 mg/l (daphnia magna)

IC50/72h 2.2 mg/l (algae)

LC50/96h 2.6 mg/l (oncorhynchus mykiss)

100-41-4 ethylbenzene

EC50/24h >100 mg/l (daphnia magna)

98-56-6 4-chloro-alpha,alpha,alpha-trifluorotoluene

IC50/72h 8 mg/l (algae)

LC50/96h 40-60 mg/l (fish)

123-86-4 n-butyl acetate

EC50/48h 44 mg/l (daphnia magna)

EC50/72h 647.7 mg/l (desmodesmus supspicatus)

IC50 356 mg/l (tetrahymena pyriformis) (40 h)

LC50/96h 18 mg/l (pimphales promelas) (OECD 203)

NOAEL/72h 200 mg/l (desmodesmus supspicatus)

Derivative of Benzotriazol

EC10/72h (static) 10 mg/l (pseudokirchneriella subcapitata) (OESO 201)

EC50/3h (static) >1000 mg/l (ac) (OESO 209)

EC50/48h (static) 4.0 mg/l (daphnia magna) (OESO 202)

EC50/72h (static) >9 mg/l (algae) (OESO 201)

LC0/14d >1000 mg/kg (Eisenia foetida) (OESO 207)

LC50/96h (static) (oncorhynchus mykiss)

NOEC/21d (dynamic) 0.78 mg/l (daphnia magna) (OESO 202)

NOEC/56d 100 mg/kg (Eisenia foetida) (OESO 222)

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Reaction mass of pentamethylpiperidyl sebacat

| | |
|--------------------|--|
| EC50/24h | 20 mg/l (daphnia magna) (OESO 202) |
| EC50/3h | >100 mg/l (ac) (OESO 209) |
| EC50/72h (static) | 1.68 mg/l (desmodesmus supspicatus) (OESO 201) |
| LC50/96h | 0.97 mg/l (leporinus macrochirus) (OESO 203) |
| | 0.9 mg/l (Brachydanio rerio) (OESO 203) |
| | 7.9 mg/l (oncorhynchus mykiss) (OESO 203) |
| NOEC/21d (dynamic) | 1 mg/l (daphnia magna) (OESO 211) |

· Persistence and degradability No further relevant information available.

· Degree of elimination:

123-86-4 n-butyl acetate

OECD 301D 83 % (l) (28 d)

· Behavior in environmental systems:

· Bioaccumulative potential

1330-20-7 xylene

LogPow 3.15 (l)

· Mobility in soil No further relevant information available.

· Ecotoxicological effects:

· Remark: Harmful to fish

· Additional ecological information:

· General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

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

· Uncleaned packagings:

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

***14 Transport information**

· UN-Number

· DOT, ADR, ADN, IMDG, IATA UN1263

· UN proper shipping name

· DOT, IMDG, IATA PAINT

· ADR/ADN 1263 PAINT

· Transport hazard class(es)

· DOT



· Class 3 Flammable liquids

· Label 3

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· ADR,ADN, IMDG, IATA



| | |
|---|----------------------------|
| · Class | 3 Flammable liquids |
| · Label | 3 |
| · Packing group | |
| · DOT, ADR,ADN, IMDG, IATA | II |
| · Environmental hazards: | |
| · Marine pollutant: | No |
| · Special precautions for user | Warning: Flammable liquids |
| · Danger code (Kemler): | 33 |
| · EMS Number: | F-E, <u>S-E</u> |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |

· Transport/Additional information:

· ADR/ADN

| | |
|----------------------------|---|
| · Excepted quantities (EQ) | Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
|----------------------------|---|

· IMDG

| | |
|----------------------------|---|
| · Limited quantities (LQ) | 5L |
| · Excepted quantities (EQ) | Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |

| | |
|--------------------------|----------------------|
| · UN "Model Regulation": | UN1263, PAINT, 3, II |
|--------------------------|----------------------|

* 15 Regulatory information

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

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

1330-20-7 xylene

100-41-4 ethylbenzene

· TSCA (Toxic Substances Control Act):

67-64-1 acetone

1330-20-7 xylene

100-41-4 ethylbenzene

64742-95-6 Hydrocarbons, C9, aromatics

98-56-6 4-chloro-alpha,alpha,alpha-trifluorotoluene

123-86-4 n-butyl acetate

41556-26-7 bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate

82919-37-7 methyl 1,2,2,6,6-pentamethyl-4-piperidylsebacate

122-99-6 2-Phenoxyethanol

77-58-7 dibutyltin dilaurate

· Proposition 65

· Chemicals known to cause cancer:

100-41-4 ethylbenzene

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- Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

- Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

- Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- Carcinogenicity categories

- EPA (Environmental Protection Agency)

67-64-1 acetone: I

1330-20-7 xylene: I

100-41-4 ethylbenzene: D

- TLV (Threshold Limit Value established by ACGIH)

67-64-1 acetone: A4

1330-20-7 xylene: A4

100-41-4 ethylbenzene: A3

77-58-7 dibutyltin dilaurate: A4

- NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

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

- Hazard pictograms



GHS02

GHS07

GHS08

- Signal word Danger

- Hazard-determining components of labeling:

xylene

ethylbenzene

acetone

Hydrocarbons, C9, aromatics

- Hazard statements

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Suspected of causing cancer.

May cause respiratory irritation. May cause drowsiness or dizziness.

May cause damage to the hearing organs through prolonged or repeated exposure.

- Precautionary statements

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

Take precautionary measures against static discharge.

Do not breathe mist/vapours/spray.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

- National regulations:

- Other regulations, limitations and prohibitive regulations

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.

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

16 Other information

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

- Contact: Dhr. B. Peters

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· Date of preparation / last revision 07/06/2015 / 1

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Carc. 2: Carcinogenicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

· * Data compared to the previous version altered.

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