

**PINJASOL COLOR**

Date 18.10.2011

Previous date: 4.7.2011

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier****1.1.1 Commercial Product Name**

PINJASOL COLOR

**1.1.2 Product code**

292 -series

**1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Recommended use**

Painting work.

Description: A solvent-borne wood stain outdoors.

**1.3 Details of the supplier of the safety data sheet****1.3.1 Supplier**

Tikkurila Oyj

**P.O.Box**

P.O.Box 53

**Postcode and post office**

FI-01301 VANTAA

FINLAND

**Telephone**

+358 9 857 71

**Telefax**

+358 9 8577 6936

**1.3.4 Responsible for the Safety Data Sheet:**

Tikkurila Oyj, Product Safety, e-mail: productsafety@tikkurila.com

**1.4 Emergency telephone number****1.4.1 Telephone number, name and address**

Tikkurila Oyj, Environment and Safety: +358 9 857 71 (Mon-Fri 8-16 Finnish time)

**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****67/548/EEC - 1999/45/EC**

F, Xn; R11-20/21-38-65-52/53

**2.2 Label elements****67/548/EEC - 1999/45/EC**

F Highly flammable

Xn Harmful

**R-phrases(s)**

R11 Highly flammable.

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

R38 Irritating to skin.

R65 Harmful: may cause lung damage if swallowed.

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

**S-phrases(s)**

S16 Keep away from sources of ignition - No smoking.

S23 Do not breathe vapour/spray.

S29 Do not empty into drains.

S36/37 Wear suitable protective clothing and gloves.

S38 In case of insufficient ventilation, wear suitable respiratory equipment.

S33 Take precautionary measures against static discharges.

**Contains:**

Xylene, hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, and tolylfluanid.

**Special regulations on certain preparations**

Contains ethyl methyl ketoxime and tolylfluanid. May produce an allergic reaction.

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- 2.3 Other hazards**  
Other hazards are not known.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>3.2 Mixtures</b>				
<b>Hazardous components</b>				
<b>CAS number</b>	<b>EINECS</b>	<b>Chemical name of the substance</b>	<b>Concentration</b>	<b>Classification</b>
1330-20-7	215-535-7	Xylene	25 - 50 %	Xn; R10-20/21-38
-	927-510-4	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	10 - 22 %	F, Xn, N; R11-38-65-67-51/53
100-41-4	202-849-4	Ethylbenzene	10 - 25 %	F, Xn; R11-20
64742-48-9	265-150-3	Naphtha, hydrotreated heavy (aliphatic hydrocarbon solvent)	5 - 10 %	Xn; R10-65-66
64742-48-9	265-150-3	Naphtha, hydrotreated heavy (aliphatic hydrocarbon solvent)	1 - 5 %	Xn; R65-66
68551-44-0	271-378-4	Zinc carboxylate	1 - 2,5 %	Xi, N; R38-51/53
108-88-3	203-625-9	Toluene	1 - 2,5 %	F, Xn; R11-38-48/20-63-65-67
96-29-7	202-496-6	Ethylmethylketoxime	< 0,5 %	Xn; R21-40-41-43
731-27-1	211-986-9	Tolyfluanid	< 0,5 %	T+, N; R26-36/37/38-43-48/23-50

- 3.3 Other information**  
Naphthas, hydrotreated heavy, and hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, contain benzene less than 0,1 w-%.  
See Section 16 for full text of R-phrases and H-statements.

**4. FIRST AID MEASURES**

- 4.1 Description of first aid measures**  
In all cases of doubt, or when symptoms persist, seek medical attention.
- 4.1.2 Inhalation**  
Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Seek medical attention.
- 4.1.3 Skin contact**  
Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use solvents or thinners.
- 4.1.4 Eye contact**  
Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 15 minutes and seek medical advice if necessary.
- 4.1.5 Ingestion**  
If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.
- 4.2 Most important symptoms and effects, both acute and delayed**  
Harmful by inhalation and in contact with skin. Irritating to skin. Harmful: may cause lung damage if swallowed. Inhalation of vapours may cause dizziness, headache and nausea.
- 4.3 Indication of immediate medical attention and special treatment needed**  
None.

**5. FIREFIGHTING MEASURES**

- 5.1 Extinguishing media**
- 5.1.1 Suitable extinguishing media**  
Recommended: Alcohol resistant foam, CO<sub>2</sub>, powders or water spray/mist.

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**5.1.2 Extinguishing media which must not be used for safety reasons**

Do not use strong water jets.

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

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required.

**5.3 Advice for firefighters**

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

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

**6.2 Environmental precautions**

Do not allow to enter drains or water courses.

**6.3 Methods and materials for containment and cleaning up**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand or vermiculite and place in a container for disposal according to local regulations. Clean preferably with a detergent; avoid the use of solvents.

**6.4 Reference to other sections**

See also Section 13 for waste disposal instructions.

**7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

Vapours are heavier than air and may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Isolate from sources of heat, sparks and open flame. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. No sparking tools should be used. Avoid skin and eye contact. Avoid inhalation of vapour and spray mist. Avoid inhalation of dust from sanding. Smoking, eating and drinking should be prohibited in application area.

**Risk of self-ignition!** Materials such as cleaning rags and paper wipes, which are contaminated with the product, sanding dust or overspray containing the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be placed in a container soaked with water or laid out flat in a single layer to dry preferably outdoors or incinerated immediately. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.

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

Store in a cool, dry, well ventilated place away from sources of heat and direct sunlight. Keep away from sources of ignition. No smoking. Keep away from oxidising agents, from strongly alkaline and strongly acid materials. Keep container tightly closed.

**7.3 Specific end use(s)**

None.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****8.1.1 Occupational exposure limit values**

Xylene (EU)	50 ppm (8 h) Skin	100 ppm (15 min)
Ethylbenzene (EU)	100 ppm (8 h) Skin	200 ppm (15 min)

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Toluene (EU)	50 ppm (8 h)	100 ppm (15 min)
	Skin	
Xylene (TLV)	100 ppm (8 h)	150 ppm (15 min)
Ethylbenzene (TLV)	100 ppm (8 h)	125 ppm (15 min)
Toluene (TLV)	20 ppm (8 h)	

**8.1.2 Other information on limit values**

EU = Occupational Exposure Limit Values according to EU Directives 1998/24/EC, 2000/39/EC, 2006/15/EC, 2009/161/EU.

Skin = A skin notation assigned to the occupational exposure limit value indicates the possibility of significant uptake through the skin.

TLV = Threshold Limit Values according to ACGIH 2009 (American Conference of Governmental Industrial Hygienists)

**8.2 Exposure controls****8.2.1 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 vapour below the OEL, suitable respiratory protection must be worn.

**8.2.2 Individual protection measures****8.2.2.1 Respiratory protection**

Use appropriate certified respirators, with gas and vapour filter A, during sanding with dust filter P2, if ventilation is insufficient. During spray-application use respirators with gas, vapour and dust filter A/P3. During continuous and long-term work the use of motor-driven or air-fed respirators is recommended.

**8.2.2.2 Hand protection**

Always wear protective gloves.

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

Gloves should be replaced regularly. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Recommended protective glove type is e.g.:

nitrile rubber (splash protection),

fluoro rubber (breakthrough time > 480 min.),

laminated foil (breakthrough time > 480 min.)

PVC or natural rubber gloves are not recommended.

**8.2.2.3 Eye/face protection**

Use safety eyewear designed to protect against splash of liquids.

**8.2.2.4 Skin protection**

Personnel should wear protective clothing.

When necessary, wear anti-static protective clothing made of natural fibre or of high temperature resistant synthetic fibre.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Important Health Safety and Environmental Information****9.1.1 Appearance**

Liquid, strong odour

**9.1.6 Initial boiling point and boiling range** 87 - 110 °C \*)

**9.1.7 Flash point** -9 °C \*)

**9.1.10 Explosive properties**

**9.1.10.1 Lower explosion limit** 1,4 vol-% \*)

**9.1.10.2 Upper explosion limit** 7,6 vol-% \*)

**9.1.11 Vapour pressure** 15 kPa (38 °C) \*)

**9.1.13 Relative density** 0,8

**9.1.14 Solubility(ies)**

**9.1.14.1 Water solubility** Insoluble

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**9.2 Other information**

Evaporation rate (BuAc=1) : 5,5 \*)

\*) = Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

**10. STABILITY AND REACTIVITY****10.1 Reactivity**

See section 10.5.

**10.2 Chemical stability**

Stable under recommended storage and handling conditions (see section 7).

**10.3 Possibility of hazardous reactions**

See section 10.5.

**10.4 Conditions to avoid**

In confined or poorly ventilated spaces solvent vapours may form explosive mixtures with air. When exposed to high temperatures may produce hazardous decomposition products.

**10.5 Incompatible materials**

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

**10.6 Hazardous decomposition products**

Hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc. may produce when exposed to high temperatures.

**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

There are no toxicological test data available on the product itself.

**11.1.3 Sensitisation**

Contains ethyl methyl ketoxime and tolylfluaniid. May produce an allergic reaction.

**11.1.7 Aspiration hazard**

Tuote sisältää liuotinbenssiiniä, joka voi aiheuttaa keuhkovaurion nieltäessä.

**11.1.8 Other information on acute toxicity****Inhalation:** Long term exposure to spray mist or solvent vapours concentration 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 kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.**Skin contact:** Repeated or prolonged contact with the preparation causes removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.**Ingestion:** Ingestion may cause nausea, diarrhoea and vomiting.**12. ECOLOGICAL INFORMATION****12.1 Toxicity****12.1.1 Aquatic toxicity**

Naphtha, hydrotreated light: LL50 = 11 mg/l, fish, algae, daphnia magna; harmful

Tolylfluaniid: LC50 (rainbow trout, 96 h) = 0,045 mg/l; EC50 (daphnia magna, 48 h) = 0,19 mg/l; IC50 (desmodemus subspicatus, 72 h) = 1,45 mg/l.

**12.2 Persistence and degradability****12.2.1 Biodegradation**

Naphtha, hydrotreated light: readily biodegradable (estimate)

Tolylfluaniid: Biodegradable.

**12.3 Bioaccumulative potential**

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Naphtha, hydrotreated light: octanol/water partition coefficient log Kow = 2-7  
Tolyfluanid: octanol/water partition coefficient log Pow = 3,9; BCF = 74.

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

No data available.

**12.6 Other adverse effects**

There is no ecotoxicological test data available on the product itself. The product should not be allowed to enter drains or water courses.

**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****Product residues:**

Gather residues into waste containers. Destroy according to the rules given by local authorities. EWC-code for liquid waste is e.g 08 01 11 (waste paint and varnish containing organic solvents or other dangerous substances).

**Risk of self-ignition!** Cleaning cloths, sanding dust and overspray containing the product can create fire by self-ignition. Waste like this should be collected and stored in water before disposal, or dried preferably outdoors or incinerated immediately.

**Packaging waste:**

Empty cans should be recycled or disposed of in accordance with local regulations.

**14. TRANSPORT INFORMATION**

**14.1 UN number** 1263

**14.2 UN proper shipping name** paint

**14.3 Transport hazard class(es)** 3

**14.4 Packing group** II

**14.5 Environmental hazards**

The product is not classified as environmentally hazardous according to international transport regulations.

**14.6 Special precautions for users**

None known.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

None known.

**14.8 Further Information**

EmS: F-E,S-E

**15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No 689/2008 of the European Parliament and of the Council concerning the export and import of dangerous chemicals. Notification procedure for import and export of banned or severely restricted chemicals (PIC): tolyfluanid

**15.2 Chemical safety assessment**

Has not been performed.

**16. OTHER INFORMATION****16.1 Additions, Deletions, Revisions**

Points: 1.2., 1.4., 2.2., 2.3., 3.2., 3.3., 6.3., 8.1., 9.2.

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**16.5 Full text of R-phrases and/or Hazard statements (H-statements) referred to under sections 2 and 3**

R10	Flammable.
R11	Highly flammable.
R20	Harmful by inhalation.
R20/21	Harmful by inhalation and in contact with skin.
R21	Harmful in contact with skin.
R26	Very toxic by inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R38	Irritating to skin.
R40	Limited evidence of a carcinogenic effect.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation.
R50	Very toxic to aquatic organisms.
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.
R63	Possible risk of harm to the unborn child.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

**16.8 Additional information**

This Safety Data Sheet is prepared in accordance with Annex II (EU) No 453/2010 to Regulation (EC) No 1907/2006 (REACH).

The information contained in this Safety Data Sheet is based on the present state of knowledge and current EU and national 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.

Additional information available from:

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**Signature**

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