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

1.1 Product identifier
Identification of the substance: Tashiro's indicator solution
Article number: 2624
Registration number (REACH): not relevant (mixture)

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses: laboratory chemical

1.3 Details of the supplier of the safety data sheet
Carl Roth GmbH + Co KG
Schoemperlenstr. 3-5
D-76185 Karlsruhe
Germany

Telephone: +49 (0) 721 - 56 06 0
Telefax: +49 (0) 721 - 56 06 149
e-mail: sicherheit@carlroth.de
Website: www.carlroth.de

Competent person responsible for the safety data sheet: Department Health, Safety and Environment

e-mail (competent person): sicherheit@carlroth.de

1.4 Emergency telephone number

Emergency information service: Poison Centre Munich: +49/(0)89 19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

<table>
<thead>
<tr>
<th>Section</th>
<th>Hazard class</th>
<th>Hazard class and category</th>
<th>Hazard statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.6</td>
<td>flammable liquid</td>
<td>(Flam. Liq. 3)</td>
<td>H226</td>
</tr>
</tbody>
</table>

Remarks
For full text of Hazard- and EU Hazard-statements: see SECTION 16.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word Warning
**Tashiro's indicator solution in ethanol**

**article number: 2624**

**Pictograms**

**Hazard statements**

H226  Flammable liquid and vapour.

**Precautionary statements**

**Precautionary statements - prevention**

P210  Keep away from heat, hot surfaces, sparks, open flames. No smoking.
P280  Wear protective gloves/eye protection.

**Precautionary statements - response**

P303+P361+P353  IF ON SKIN (or hair): take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Labelling of packages where the contents do not exceed 125 ml**

Signal word: **Warning**

**Symbol(s)**

---

### 2.3 Other hazards

There is no additional information.

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

**3.2 Mixtures**

**Description of the mixture**

Composition/information on ingredients.

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>Identifier</th>
<th>wt%</th>
<th>Classification acc. to 1272/2008/EC</th>
<th>Pictograms</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethyl alcohol</td>
<td>CAS No 64-17-5</td>
<td>25 - 50</td>
<td>Flam. Liq. 2 / H225 Eye Irrit. 2 / H319</td>
<td>!</td>
</tr>
</tbody>
</table>
SECTION 4: First aid measures

4.1 Description of first aid measures

**General notes**
Take off contaminated clothing.

**Following inhalation**
Provide fresh air.

**Following skin contact**
Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

**Following eye contact**
Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

**Following ingestion**
Rinse mouth. Call a doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed
Breathing difficulties, Abdominal pain, Vomiting, Narcosis, Vertigo, Nausea, Vomiting

4.3 Indication of any immediate medical attention and special treatment needed
none

SECTION 5: Firefighting measures

5.1 Extinguishing media

**Suitable extinguishing media**
Co-ordinate fire-fighting measures to the fire surroundings
- water spray
- foam
- alcohol resistant foam
- dry extinguishing powder
- carbon dioxide (CO2)

**Unsuitable extinguishing media**
- water jet

5.2 Special hazards arising from the substance or mixture
Combustible. Vapours can form explosive mixtures with air.

**Hazardous combustion products**
In case of fire may be liberated: May produce toxic fumes of carbon monoxide if burning.

5.3 Advice for firefighters
Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Solvent vapours are heavier than air and may spread along floors. Beware of reignition.
Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray. Avoidance of ignition sources.

Keep away from drains, surface and ground water. Explosive properties.

Covering of drains.

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Place in appropriate containers for disposal. Ventilate affected area.


Provide adequate ventilation as well as local exhaustion at critical locations. Keep container tightly closed.

Take precautionary measures against static discharge.

Advice on general occupational hygiene
Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. When using do not smoke.

Incompatible substances or mixtures
Observe hints for combined storage.

Consideration of other advice
Ground/bond container and receiving equipment.
Use local and general ventilation.

Recommended storage temperature: 15 - 25 °C.

No information available.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

<table>
<thead>
<tr>
<th>Country</th>
<th>Name of agent</th>
<th>CAS No</th>
<th>Notation</th>
<th>Identifier</th>
<th>TWA [ppm]</th>
<th>TWA [mg/m³]</th>
<th>STEL [ppm]</th>
<th>STEL [mg/m³]</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>GB</td>
<td>ethanol</td>
<td>64-17-5</td>
<td>WEL</td>
<td></td>
<td>1.000</td>
<td>1.920</td>
<td></td>
<td></td>
<td>EH40/2005</td>
</tr>
</tbody>
</table>

Notation

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average

Relevant DNELs/DMELs/PNECs and other threshold levels

• relevant DNELs of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Endpoint</th>
<th>Threshold level</th>
<th>Protection goal, route of exposure</th>
<th>Used in</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethyl alcohol</td>
<td>64-17-5</td>
<td>DNEL</td>
<td>1.900 mg/m³</td>
<td>human, inhalatory</td>
<td>worker (industry)</td>
<td>acute - systemic effects</td>
</tr>
<tr>
<td>ethyl alcohol</td>
<td>64-17-5</td>
<td>DNEL</td>
<td>343 mg/kg</td>
<td>human, dermal</td>
<td>worker (industry)</td>
<td>chronic - systemic effects</td>
</tr>
<tr>
<td>ethyl alcohol</td>
<td>64-17-5</td>
<td>DNEL</td>
<td>950 mg/m³</td>
<td>human, inhalatory</td>
<td>worker (industry)</td>
<td>chronic - systemic effects</td>
</tr>
</tbody>
</table>

• relevant PNECs of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Endpoint</th>
<th>Threshold level</th>
<th>Environmental compartment</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethyl alcohol</td>
<td>64-17-5</td>
<td>PNEC</td>
<td>0,79 mg/cm³</td>
<td>marine water</td>
<td>intermittent release</td>
</tr>
<tr>
<td>ethyl alcohol</td>
<td>64-17-5</td>
<td>PNEC</td>
<td>2,75 mg/cm³</td>
<td>air</td>
<td>intermittent release</td>
</tr>
<tr>
<td>ethyl alcohol</td>
<td>64-17-5</td>
<td>PNEC</td>
<td>3,6 mg/cm³</td>
<td>freshwater sediment</td>
<td>intermittent release</td>
</tr>
<tr>
<td>ethyl alcohol</td>
<td>64-17-5</td>
<td>PNEC</td>
<td>0,96 mg/cm³</td>
<td>freshwater</td>
<td>intermittent release</td>
</tr>
<tr>
<td>ethyl alcohol</td>
<td>64-17-5</td>
<td>PNEC</td>
<td>580 mg/cm³</td>
<td>sewage treatment plant (STP)</td>
<td>intermittent release</td>
</tr>
<tr>
<td>ethyl alcohol</td>
<td>64-17-5</td>
<td>PNEC</td>
<td>0,63 mg/cm³</td>
<td>soil</td>
<td>intermittent release</td>
</tr>
</tbody>
</table>
8.2 Exposure controls

Individual protection measures (personal protective equipment)

**Eye/face protection**
Use safety goggles with side protection.

**Skin protection**

- **hand protection**
  Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- **type of material**
  Butyl caoutchouc (butyl rubber)

- **material thickness**
  0,7mm

- **breakthrough times of the glove material**
  >480 minutes (permeation: level 6)

- **other protection measures**
  Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

**Respiratory protection**
Respiratory protection necessary at: Aerosol or mist formation.

**Environmental exposure controls**
Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

**Appearance**

- Physical state: liquid (fluid)
- Colour: green
- Odour: like: alcohol
- Odour threshold: No data available

**Other physical and chemical parameters**

- pH (value): This information is not available.
- Melting point/freezing point: not determined
- Initial boiling point and boiling range: This information is not available.
- Flash point: 27 °C
- Evaporation rate: no data available
- Flammability (solid, gas): not relevant (fluid)
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Explosive limits

• lower explosion limit (LEL) 3,5 vol%
• upper explosion limit (UEL) 15 vol%
Explosion limits of dust clouds not relevant
Vapour pressure This information is not available.
Density 0,934 g/cm³ at 20 °C
Vapour density This information is not available.
Bulk density Not applicable
Relative density Information on this property is not available.
Solubility(ies)
Water solubility miscible in any proportion
Partition coefficient
n-octanol/water (log KOW) This information is not available.
Auto-ignition temperature 425 °C
Decomposition temperature no data available
Viscosity not determined
Explosive properties Shall not be classified as explosive
Oxidising properties none

9.2 Other information
Temperature class (EU, acc. to ATEX) T2 (Maximum permissible surface temperature on the equipment: 300°C)

SECTION 10: Stability and reactivity

10.1 Reactivity
risk of ignition. In case of warming: Vapours can form explosive mixtures with air.

10.2 Chemical stability
The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions
Violent reaction with: Alkali metals, Alkaline earth metal, Acetic anhydride, Nitrate, Perchlorates, Peroxides, Phosphorus oxides (e.g. P2O5), Nitric acid, Strong oxidiser,
=> Explosive properties

10.4 Conditions to avoid
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Tashiro's indicator solution  in ethanol

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10.5 **Incompatible materials**
- plastic and rubber

10.6 **Hazardous decomposition products**
- Hazardous combustion products: see section 5.

**SECTION 11: Toxicological information**

11.1 **Information on toxicological effects**

**Acute toxicity**
- Shall not be classified as acutely toxic.

**Skin corrosion/irritation**
- Shall not be classified as corrosive/irritant to skin.

**Serious eye damage/eye irritation**
- Shall not be classified as seriously damaging to the eye or eye irritant.

**Respiratory or skin sensitisation**
- Shall not be classified as a respiratory or skin sensitiser.

**Summary of evaluation of the CMR properties**
- Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant

- **Specific target organ toxicity - single exposure**
  - Shall not be classified as a specific target organ toxicant (single exposure).

- **Specific target organ toxicity - repeated exposure**
  - Shall not be classified as a specific target organ toxicant (repeated exposure).

**Aspiration hazard**
- Shall not be classified as presenting an aspiration hazard.

**Symptoms related to the physical, chemical and toxicological characteristics**

- **If swallowed**
  - vomiting, abdominal pain, nausea, Causes damage to liver through prolonged or repeated exposure if swallowed
  - data are not available

- **If in eyes**
  - narcosis, vertigo, breathing difficulties, Inebriation

- **If inhaled**
  - Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation)

**Other information**
- None
SECTION 12: Ecological information

12.1 Toxicity
acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)

Aquatic toxicity (acute) of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Endpoint</th>
<th>Value</th>
<th>Species</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethyl alcohol</td>
<td>64-17-5</td>
<td>EC50</td>
<td>&gt;9.000 mg/l</td>
<td>daphnia magna</td>
<td>48 h</td>
</tr>
<tr>
<td>ethyl alcohol</td>
<td>64-17-5</td>
<td>LC50</td>
<td>8.140 mg/l</td>
<td>orfe (Leuciscus idus)</td>
<td>96 h</td>
</tr>
</tbody>
</table>

12.2 Process of degradability
Data are not available.

Degradability of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Process</th>
<th>Degradation rate</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethyl alcohol</td>
<td>64-17-5</td>
<td>biotic/abiotic</td>
<td>94 %</td>
<td>d</td>
</tr>
</tbody>
</table>

12.3 Bioaccumulative potential
Data are not available.

Bioaccumulative potential of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>BCF</th>
<th>Log KOW</th>
<th>BOD5/COD</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethyl alcohol</td>
<td>64-17-5</td>
<td></td>
<td>-0.31</td>
<td></td>
</tr>
</tbody>
</table>

12.4 Mobility in soil
Data are not available.

12.5 Results of PBT and vPvB assessment
Data are not available.

12.6 Other adverse effects
Data are not available.
SECTION 13: Disposal considerations

13.1 Waste treatment methods
This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information
Do not empty into drains.

Waste treatment of containers/packagings
It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

13.2 Relevant provisions relating to waste
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.3 Remarks
Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

SECTION 14: Transport information

14.1 UN number
1170

14.2 UN proper shipping name
ETHANOL SOLUTION

Hazardous ingredients
Ethyl alcohol

14.3 Transport hazard class(es)
Class 3 (flammable liquids)

14.4 Packing group
III (substance presenting low danger)

14.5 Environmental hazards
none (non-environmentally hazardous acc. to the dangerous goods regulations)

14.6 Special precautions for user
Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code
The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations
• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number 1170
Proper shipping name ETHANOL SOLUTION
Particulars in the transport document UN1170, ETHANOL SOLUTION, 3, III, (D/E)
Class 3
Classification code F1
Packing group III
Danger label(s) 3
### Tashiro's indicator solution in ethanol

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<table>
<thead>
<tr>
<th>Special provisions (SP)</th>
<th>144, 601</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excepted quantities (EQ)</td>
<td>E1</td>
</tr>
<tr>
<td>Limited quantities (LQ)</td>
<td>5 L</td>
</tr>
<tr>
<td>Transport category (TC)</td>
<td>3</td>
</tr>
<tr>
<td>Tunnel restriction code (TRC)</td>
<td>D/E</td>
</tr>
<tr>
<td>Hazard identification No</td>
<td>30</td>
</tr>
</tbody>
</table>

**Emergency Action Code**

- **International Maritime Dangerous Goods Code (IMDG)**
  - UN number: 1170
  - Proper shipping name: ETHANOL SOLUTION
  - Particulars in the shipper's declaration: UN1170, ETHANOL SOLUTION, 3, III, 27°C c.c.
  - Class: 3
  - Packing group: III
  - Danger label(s): 3

<table>
<thead>
<tr>
<th>Special provisions (SP)</th>
<th>144, 223</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excepted quantities (EQ)</td>
<td>E1</td>
</tr>
<tr>
<td>Limited quantities (LQ)</td>
<td>5 L</td>
</tr>
<tr>
<td>EmS</td>
<td>F-E, S-D</td>
</tr>
<tr>
<td>Stowage category</td>
<td>A</td>
</tr>
</tbody>
</table>

### SECTION 15: Regulatory information

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

**Relevant provisions of the European Union (EU)**

- **Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)**
  None of the ingredients are listed.

- **Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)**
  None of the ingredients are listed.
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• Regulation 850/2004/EC on persistent organic pollutants (POP)
  None of the ingredients are listed.
• Restrictions according to REACH, Annex XVII
  None of the ingredients are listed.
• List of substances subject to authorisation (REACH, Annex XIV)
  None of the ingredients are listed.
• Seveso Directive

<table>
<thead>
<tr>
<th>No</th>
<th>Dangerous substance/hazard categories</th>
<th>Qualifying quantity (tonnes) for the application of lower and upper-tier requirements</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>P5c</td>
<td>flammable liquids (cat. 2, 3)</td>
<td>5.000</td>
<td>50.000</td>
</tr>
</tbody>
</table>

Notation
51) Flammable liquids, categories 2 or 3 not covered by P5a and P5b

• Limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products (2004/42/EC, Deco-Paint Directive)

VOC content 25 - 50 %

• Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content 25 - 50 %

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

None of the ingredients are listed.

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

None of the ingredients are listed.

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

<table>
<thead>
<tr>
<th>Abbr.</th>
<th>Descriptions of used abbreviations</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADN</td>
<td>Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)</td>
</tr>
<tr>
<td>ADR</td>
<td>Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)</td>
</tr>
<tr>
<td>BCF</td>
<td>bioconcentration factor</td>
</tr>
<tr>
<td>BOD</td>
<td>Biochemical Oxygen Demand</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)</td>
</tr>
<tr>
<td>CLP</td>
<td>Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures</td>
</tr>
<tr>
<td>CMR</td>
<td>Carcinogenic, Mutagenic or toxic for Reproduction</td>
</tr>
</tbody>
</table>
### Tashiro's indicator solution in ethanol

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<table>
<thead>
<tr>
<th>Abbr.</th>
<th>Descriptions of used abbreviations</th>
</tr>
</thead>
<tbody>
<tr>
<td>COD</td>
<td>chemical oxygen demand</td>
</tr>
<tr>
<td>DMEL</td>
<td>Derived Minimal Effect Level</td>
</tr>
<tr>
<td>DNEL</td>
<td>Derived No-Effect Level</td>
</tr>
<tr>
<td>EC No</td>
<td>The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)</td>
</tr>
<tr>
<td>EINECS</td>
<td>European Inventory of Existing Commercial Chemical Substances</td>
</tr>
<tr>
<td>ELINCS</td>
<td>European List of Notified Chemical Substances</td>
</tr>
<tr>
<td>EmS</td>
<td>Emergency Schedule</td>
</tr>
<tr>
<td>Eye Dam.</td>
<td>seriously damaging to the eye</td>
</tr>
<tr>
<td>Eye Irrit.</td>
<td>irritant to the eye</td>
</tr>
<tr>
<td>Flam. Liq.</td>
<td>flammable liquid</td>
</tr>
<tr>
<td>GHS</td>
<td>&quot;Globally Harmonized System of Classification and Labelling of Chemicals&quot; developed by the United Nations</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods Code</td>
</tr>
<tr>
<td>Index No</td>
<td>the Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008</td>
</tr>
<tr>
<td>log KOW</td>
<td>n-octanol/water</td>
</tr>
<tr>
<td>MARPOL</td>
<td>International Convention for the Prevention of Pollution from Ships (abbr. of &quot;Marine Pollutant&quot;)</td>
</tr>
<tr>
<td>NLP</td>
<td>No-Longer Polymer</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent, Bioaccumulative and Toxic</td>
</tr>
<tr>
<td>PNEC</td>
<td>Predicted No-Effect Concentration</td>
</tr>
<tr>
<td>ppm</td>
<td>parts per million</td>
</tr>
<tr>
<td>REACH</td>
<td>Registration, Evaluation, Authorisation and Restriction of Chemicals</td>
</tr>
<tr>
<td>RID</td>
<td>Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)</td>
</tr>
<tr>
<td>STEL</td>
<td>short-term exposure limit</td>
</tr>
<tr>
<td>TWA</td>
<td>time-weighted average</td>
</tr>
<tr>
<td>VOC</td>
<td>Volatile Organic Compounds</td>
</tr>
<tr>
<td>vPvB</td>
<td>very Persistent and very Bioaccumulative</td>
</tr>
<tr>
<td>WEL</td>
<td>workplace exposure limit</td>
</tr>
</tbody>
</table>

**Key literature references and sources for data**
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

**List of relevant phrases (code and full text as stated in chapter 2 and 3)**
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Tashiro's indicator solution in ethanol

article number: 2624

<table>
<thead>
<tr>
<th>Code</th>
<th>Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>H225</td>
<td>highly flammable liquid and vapour</td>
</tr>
<tr>
<td>H226</td>
<td>flammable liquid and vapour</td>
</tr>
<tr>
<td>H319</td>
<td>causes serious eye irritation</td>
</tr>
</tbody>
</table>

Disclaimer

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