SAFETY DATA SHEET
THINNER 006 1033

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

1.1 Product identifier
Product name: THINNER 006 1033
Product description: Thinner.

1.2 Relevant identified uses of the substance or mixture and uses advised against
Recommended use: Painting work

1.3 Details of the supplier of the safety data sheet
Manufacturer or Distributor
Tikkurila Oyj
P.O. Box 53
FI-01301 VANTAA
FINLAND
Telephone +358 20 191 2000
E-mail: productsafety@tikkurila.com

1.4 Emergency telephone number
Telephone number: 112 (24h)
Supplier or Manufacturer
Tikkurila Oyj
Telephone number: +358 20 191 2000 (GMT +2) Mon-Fri 8-16

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. 2, H225
Skin Irrit. 2, H315
Eye Dam. 1, H318
Repr. 2, H361d (Unborn child)
STOT SE 3, H336
STOT RE 2, H373
Asp. Tox. 1, H304
The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

2.2 Label elements
Hazard pictograms:

Signal word: Danger
Hazard statements:
- H225 - Highly flammable liquid and vapor.
- H304 - May be fatal if swallowed and enters airways.
- H315 - Causes skin irritation.
- H318 - Causes serious eye damage.
- H336 - May cause drowsiness or dizziness.
- H361d - Suspected of damaging the unborn child.
- H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:
- General: Not applicable.
- Prevention:
  - P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  - P261 - Avoid breathing mist/vapors/spray.
  - P280 - Wear protective gloves/clothing and eye/face protection.
  - P284 - In case of inadequate ventilation wear respiratory protection.
- Response:
  - P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or physician.
  - P331 - Do NOT induce vomiting.
  - P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P310 - Immediately call a POISON CENTER or physician.
- Storage: Not applicable.
- Disposal: Not applicable.

Hazardous ingredients:
- Toluene
- Iso-butanol

Supplemental label elements: 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

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Identifiers</th>
<th>%</th>
<th>Classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iso-butanol</td>
<td>REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1</td>
<td>≥10 - &lt;20</td>
<td>Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336</td>
<td>-</td>
</tr>
<tr>
<td>Ethanol</td>
<td>REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5</td>
<td>≥10 - ≤25</td>
<td>Flam. Liq. 2, H225</td>
<td>-</td>
</tr>
<tr>
<td>Ethyl acetate</td>
<td>REACH #: 01-2119475103-46 EC: 205-600-4 CAS: 141-78-6 Index: 607-022-00-5</td>
<td>≤10</td>
<td>Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066 See Section 16 for the full text of the H statements declared above.</td>
<td>-</td>
</tr>
</tbody>
</table>
SECTION 4: First aid measures

4.1 Description of first aid measures

General: In all cases of doubt, or when symptoms persist, seek medical attention. Show this safety data sheet or label to the doctor if possible.

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of lukewarm water, keeping eyelids open. Continue to rinse for at least 20 minutes. Get medical attention immediately.

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. Get medical attention immediately.

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

Ingestion: Aspiration hazard if swallowed. Can enter lungs and cause damage. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Remove to fresh air and keep at rest in a position comfortable for breathing. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye damage.
May cause damage to organs through prolonged or repeated exposure.
Suspected of damaging the unborn child.
May be fatal if swallowed and enters airways.
Causes skin irritation.
May cause drowsiness or dizziness.
See Section 11 for more detailed information on health effects and symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire. Recommended: Alcohol resistant foam, CO₂, powders or water spray/mist.

Unsuitable extinguishing media: Do not use a direct water jet that could spread the fire.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: When exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

5.3 Advice for firefighters
SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
- Provide adequate ventilation. Avoid breathing vapor or mist. Avoid direct skin contact with product. See Section 8 for information on appropriate personal protective equipment.

6.2 Environmental precautions
- Do not allow to enter drains, water courses or soil.

6.3 Methods and materials 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. Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections
- See Section 1 for emergency contact information.
- See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
- Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. Isolate from sources of heat, sparks and open flame. 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. No sparking tools should be used.
  - Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Skin contact with the product and exposure to spray mist and vapor should be avoided. Avoid inhalation of dust from sanding. Wear appropriate respirator when ventilation is inadequate. See Section 8 for information on appropriate personal protective equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled and stored. Wash hands before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities
- Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). No smoking. Store and use away from heat, sparks, open flame or any other ignition source. Keep container tightly closed. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Recommended storage temperature is +5°C ...+25°C. Store in accordance with local regulations.

7.3 Specific end use(s)
- None.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
- Occupational exposure limits
<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Exposure limit values</th>
</tr>
</thead>
</table>
| Toluene                 | EU OEL (Europe, 12/2009). Absorbed through skin. Notes: list of indicative occupational exposure limit values  
TWA: 192 mg/m³ 8 hours.  
TWA: 50 ppm 8 hours.  
STEL: 384 mg/m³ 15 minutes.  
STEL: 100 ppm 15 minutes. |

Recommended monitoring procedures: 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.

DNELs/DMELs: No DNELs/DMELs available.

PNECs: No PNECs available.

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. Use explosion-proof ventilation equipment. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn (see Personal protection). Provide a readily-accessible eyewash facility. Comply with the health and safety at work laws.

Individual protection measures

Eye/face protection: Wear eye/face protection (EN166).

Hand protection: Wear protective gloves. Gloves should be replaced regularly and if there is any sign of damage to the glove material. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.  
Recommended glove material (EN374):  
< 1 hour (breakthrough time): nitrile rubber  
> 8 hours (breakthrough time): fluor rubber, laminated foil  
Not recommended: PVC or natural rubber (latex) gloves

Skin protection: Wear suitable protective clothing. This product is classified as flammable. If necessary, personnel should wear antistatic clothing made of natural fibers or of high-temperature-resistant synthetic fibers.

Respiratory protection: If ventilation is inadequate, use respirator that will protect against organic vapor and dust/mist. During spray-application use respirators with combination filter A/P3 (EN405:2001). Wear a half mask or full face respirator with gas and vapor filter A and dust filter P2 during sanding (EN140:1998, EN405:2001). During continuous and long-term work the use of motor-driven or air-fed respirators is recommended (EN12941:1998). Be sure to use an approved/certified respirator or equivalent. Check that mask fits tightly and change filter regularly.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| Physical state | Liquid. |
| Color         | Clear.  |
| Odor          | Strong. |

Odor threshold: Not relevant for the hazard assessment of the product.

pH: Not relevant for the hazard assessment of the product.

Melting point/freezing point: -95°C (toluene)

Initial boiling point and boiling range: 10.6°C (toluene)

Flash point: 4 °C (toluene)
Evaporation rate: 2 (butyl acetate = 1) (toluene)
Flammability (solid, gas): Not applicable. Product is a liquid.
Upper/lower flammability or explosive limits: Lower: 1.1% (toluene)  Upper: 7.1% (toluene)
Vapor pressure: 0.1 kPa [room temperature] (toluene)
Vapor density: 0.1 (toluene)
Density: 0.84 g/cm³
Solubility(ies): insoluble in water.
Partition coefficient: n-octanol/water: Not available.
Auto-ignition temperature: 480°C (toluene)
Decomposition temperature: Not relevant for the hazard assessment of the product.
Viscosity: Kinematic (40°C): <20.5 mm²/s
Explosive properties: No explosive ingredients present.
Oxidizing properties: No oxidizing ingredients present.

9.2 Other information
No additional information.

SECTION 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
May present an explosion hazard when material is suspended in air in confined areas or equipment and subjected to spark, heat or flame.

10.4 Conditions to avoid
Avoid extreme heat and freezing. Avoid all possible sources of ignition (spark or flame).

10.5 Incompatible materials
Keep away from the following materials to prevent strong exothermic reactions:
oxidizing agents
strong acids
strong alkalis

10.6 Hazardous decomposition products
When exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
There is no test data available on the product itself. The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended. Exposure to component solvent vapor 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. 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.

Acute toxicity
Not classified.

Irritation/Corrosion
Causes skin irritation. Causes serious eye damage.

Sensitization
Not classified.

Mutagenicity
Not classified.
Not classified.  
Carcinogenicity  
Not classified.  
Reproductive toxicity  
Not classified.  
Teratogenicity  
Suspected of damaging the unborn child.  
Specific target organ toxicity (single exposure)  
May cause drowsiness or dizziness.  
Specific target organ toxicity (repeated exposure)  
May cause damage to organs through prolonged or repeated exposure.  
Aspiration hazard  
May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

Ecological testing has not been conducted on this product.  
Do not allow to enter drains, water courses or soil.  
The product is not classified as environmentally hazardous according to Regulation (EC) 1272/2008.

12.1 Toxicity  
: No specific data.  
Not available.

12.2 Persistence and degradability

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Aquatic half-life</th>
<th>Photolysis</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl acetate</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
<tr>
<td>Ethanol</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Iso-butanol</td>
<td>1</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>n-Butyl acetate</td>
<td>2.3</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>2.73</td>
<td>90</td>
<td></td>
</tr>
</tbody>
</table>

12.3 Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP&lt;sub&gt;ow&lt;/sub&gt;</th>
<th>Bioconcentration factor [BCF]</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl acetate</td>
<td>0.68</td>
<td>30</td>
<td>low</td>
</tr>
<tr>
<td>Ethanol</td>
<td>-0.35</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>Iso-butanol</td>
<td>1</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>n-Butyl acetate</td>
<td>2.3</td>
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<td>low</td>
</tr>
<tr>
<td>Toluene</td>
<td>2.73</td>
<td>90</td>
<td>low</td>
</tr>
</tbody>
</table>

12.4 Mobility in soil  
Soil/water partition coefficient (K<sub>OC</sub>)  
: Not available.  
Mobility  
: Not available.

12.5 Results of PBT and vPvB assessment  
PBT  
: Not applicable.  
vPvB  
: Not applicable.

12.6 Other adverse effects  
: Not available.
SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal: Gather residues into waste containers. Liquid residue and cleaning liquids are hazardous waste and must not be emptied into drains or sewage system, but handled in accordance with national regulations. Product residues should be left at special companies which have permission for gathering this kind of wastes.

European waste catalogue (EWC)

<table>
<thead>
<tr>
<th>Waste code</th>
<th>Waste designation</th>
<th>Methods of disposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>08 01 11*</td>
<td>waste paint and varnish containing organic solvents or other hazardous substances</td>
<td>Empty packaging should be disposed of in accordance with national regulations.</td>
</tr>
</tbody>
</table>

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: Empty packaging should be disposed of in accordance with national regulations.

Special precautions: None.

SECTION 14: Transport information

<table>
<thead>
<tr>
<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1 UN number</td>
<td>UN1263</td>
<td>UN1263</td>
</tr>
<tr>
<td>14.2 UN proper shipping name</td>
<td>PAINT RELATED MATERIAL</td>
<td>PAINT RELATED MATERIAL</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>14.4 Packing group</td>
<td>II</td>
<td>II</td>
</tr>
<tr>
<td>14.5 Environmental hazards</td>
<td>No.</td>
<td>No.</td>
</tr>
<tr>
<td>Additional information</td>
<td>Special provisions 640 (C)</td>
<td>Emergency schedules (EmS) F-E,S-E</td>
</tr>
</tbody>
</table>

14.6 Special precautions for user: 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 available.

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)

Other EU regulations

Europe inventory: All components are listed or exempted.
THINNER 006 1033

Date of previous issue
08.05.2015.

Date of issue/Date of revision
22.11.2017

Version
2

Notice to reader

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. 1272/2008]
- 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]

#### Classification

<table>
<thead>
<tr>
<th>H304</th>
<th>May be fatal if swallowed and enters airways.</th>
</tr>
</thead>
<tbody>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness.</td>
</tr>
<tr>
<td>H361d</td>
<td>Suspected of damaging the unborn child.</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure.</td>
</tr>
</tbody>
</table>

#### Justification

- On basis of test data
- Calculation method
- Calculation method
- Calculation method
- Calculation method
- Calculation method

### Full text of abbreviated H statements

- H225 Highly flammable liquid and vapor.
- H226 Flammable liquid and vapor.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H361d Suspected of damaging the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.

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

- ASPIRATION HAZARD - Category 1
- Repeated exposure may cause skin dryness or cracking.
- SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
- SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
- FLAMMABLE LIQUIDS - Category 2
- FLAMMABLE LIQUIDS - Category 3
- TOXIC TO REPRODUCTION (Unborn child) - Category 2
- SKIN CORROSION/IRRITATION - Category 2
- SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
- SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
- SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

SECTION 16: Other information

**Drug precursors**: This product contains following substance(s) that are listed in Annex I / Category 3 of the EU Regulation (EC) No 273/2004 on drug precursors:

- Toluene

**15.2 Chemical Safety Assessment**: This product contains substances for which Chemical Safety Assessments are still required.

- **Carcinogenic effects**
- **Mutagenic effects**
- **Developmental effects**
- **Fertility effects**

**Product/ingredient name**
- Toluene

**Carcinogenic effects**
- -

**Mutagenic effects**
- -

**Developmental effects**
- Repr. 2, H361d (Unborn child)

**Fertility effects**
- -
This Safety Data Sheet is prepared in accordance with Annex II (EU) No 830/2015 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.