

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



## 780551 Tinovetin® JUN HC

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Revised edition: 19.07.2016

Version: 1

Printed: 03.12.2018

### 1. Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1. Product Identifier

*Product Name:* Tinovetin® JUN HC

*Article No.:* 780551

#### 1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

*Identified uses:*

*Industrial application*

*Uses advised against:*

#### 1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

*Company:* Kremer Pigmente GmbH & Co. KG

*Address:* Hauptstr. 41-47, 88317 Aichstetten, Germany

*Tel./Fax.:* Tel +49 7565 914480, Fax +49 7565 1606

*Internet:* www.kremer-pigmente.de

*E-Mail:* info@kremer-pigmente.de

*Importer:* --

#### 1.4. Emergency No.

*Emergency No.:* +49 7565 914480 (Mon-Fri 8:00 - 17:00)

### 2. Hazards Identification

#### 2.1. Classification of the Substance or Mixture

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

H302	Acute toxicity (oral), hazard category 4
Cat.: 4	Serious eye damage, hazard category 1
H318	Harmful if swallowed.
Cat.: 1	Causes serious eye damage.

*Classification according to Directive No. 67/548/EC or No. 1999/45/EC*

Harmful (Xn)	R22	Harmful if swallowed.
Irritating (Xi)	R41	Risk of serious damage to eyes.

*Safety Phrases:*

*Possible Environmental Effects:*

#### 2.2. Label Elements

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

*Hazard designation:*



GHS05-2

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GHS07

### Signal word:

Danger

### Hazard designation:

H302 Harmful if swallowed.  
H318 Causes serious eye damage.

### Safety designation:

P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/ clothing/ eye/ face protection.  
P301+P312 If swallowed: Call a poison center or physician if you feel unwell.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing.  
P310 Immediately call a poison center or physician.  
P330 Rinse mouth.  
P501 Dispose of contents/ container according to regional, national and international regulations.

### Hazardous components for labelling:

#### 2.3. Other Hazards

### 3. Composition/Information on Ingredients

#### 3.1. Substance

#### 3.2. Mixture

*Chemical Characterization:* Aqueous preparation based on ethoxylated aliphatic alcohols, non ionic.

### Information on Components / Hazardous Ingredients:

Tridecanol, branched, ethoxylated (>6 EO) (Xn; R22-41; H302-318)	60 - 100 %	CAS-Nr: 69011-36-5 EINECS-Nr: Polymer EC-Nr:
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### Additional information:

### 4. First Aid Measures

#### 4.1. Description of the First Aid Measures

##### General information:

Immediately get medical help.

##### After inhalation:

Get medical attention immediately. Call a poison center or physician.  
Give artificial respiration in case breathing is not regular or if it has stopped.  
In case of unconsciousness place patient stable in side position for transportation.  
Keep respiratory tract clear.

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*After skin contact:*

*Get medical attention immediately. Call a poison center or physician.  
Remove contaminated clothing and shoes. Wash off immediately with plenty of water and soap.  
Wash contaminated clothing and shoes before reuse.  
Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure.  
Wash clothing before reuse. Clean shoes thoroughly before reuse.*

*After eye contact:*

*Get medical attention immediately. Call a poison center or physician.  
Rinse open eyes with plenty of water for at least 15 minutes.  
Remove contact lens.  
Chemical burns have to be treated immediately by a physician.*

*After ingestion:*

*Get medical attention immediately. Call a poison center or physician.  
Rinse mouth with plenty of water and give small sips of water to drink. Consult a physician. Never give anything by mouth to an unconscious person.  
If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.  
Remove dentures if any.*

## 4.2. Most important Symptoms and Effects, both Acute and Delayed

*Symptoms:*

*Eye contact: causes serious eye damage.  
Inhalation: may give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.  
Swallowing: may cause burns to mouth and stomach.*

*Effects:*

*Eye contact: pain, watering, redness  
Skin contact: pain or irritation, redness, blistering may occur  
Swallowing: stomach pains  
Harmful if swallowed.*

## 4.3. Indication of any Immediate Medical Attention and special Treatment needed

*Treatment:*

*Treat symptomatically.  
Contact poison treatment specialist if large amounts have been ingested or inhaled.  
Following severe exposure the patient should be kept under medical surveillance for at least 48h.*

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## 5. Fire-Fighting Measures

### 5.1. Extinguishing Media

*Suitable extinguishing media:*

*Use extinguishing media for surrounding fire.*

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*Unsuitable extinguishing media:*

*None known.*

### 5.2. Special Hazards arising from the Substance or Mixture

*Special hazards:*

*The container may burst when heated or in case of fire.*

### 5.3. Advice for Firefighters

*Protective equipment:*

*Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.*

*Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basis level of protection for chemical incidents.*

*Further information:*

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## 6. Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

*Personal precautions:*

*Wear protective clothing.*

*Keep unprotected persons out of danger zone.*

*Avoid contact with skin and eyes. Do not ingest or inhale.*

*Ensure adequate ventilation.*

### 6.2. Environmental Precautions

*Environmental precautions:*

*Prevent contamination of soils, drains and surface water.*

*Contact local authorities if product pollutes soil or vegetation.*

### 6.3. Methods and Material for Containment and Cleaning Up

*Methods and material:*

*Small spills:*

*Eliminate leak, if it can be stopped safely.*

*Dilute with water and wipe up, if water soluble.*

*Absorb with an inert dry material and dispose of via a licensed waste disposal contractor.*

*Large spills:*

*Contain with absorbent material (sand, earth, vermiculite or diatomaceous earth) and collect in appropriate containers for disposal.*

*Contaminated absorbent material may pose the same hazard as the spilt product.*

### 6.4. Reference to other Sections

*Protective clothing, see Section 8.*

*See Section 13 for information on disposal.*

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## 7. Handling and Storage

### 7.1. Precautions for Safe Handling

*Instructions on safe handling:*

*Do not swallow or inhale.*

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*Avoid contact with eyes and skin.*

*The usual precautionary measures are to be adhered to when handling chemicals.*

*Provide adequate ventilation.*

*Hygienic measures:*

*Do not eat or drink during work. Do not smoke.*

*Wash thoroughly after handling.*

### 7.2. Conditions for Safe Storage, including any Incompatibilities

*Storage conditions:*

*Store in tightly sealed containers in a dry and cool room.*

*Store containers in a well ventilated location.*

*Do not store together with food stuff and animal feed.*

*Protect product from direct sunlight.*

*Do not store product in unlabelled containers.*

*Requirements for storage areas and containers:*

*Store the product in the original container.*

*Information on fire and explosion protection:*

*Storage class (VCI):*

*10; Combustible liquids (TRGS 510, Storage of hazardous materials in transportable containers)*

*Further Information:*

*Do not store together with incompatible materials (see Section 10)*

*Storage temperature: 0 - 40°C*

### 7.3. Specific End Use(s)

*Further information:*

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## 8. Exposure Controls/Personal Protection

### 8.1. Parameters to be Controlled

*Does not contain substances with occupational exposure limits.*

*Parameters to be controlled (DE):*

*Parameters to be controlled:*

*Derived No-Effect Level (DNEL):*

*No values available.*

*Predicted No-Effect Concentration (PNEC):*

*No values available.*

*Additional Information:*

### 8.2. Exposure Controls

*Technical protective measures:*

*Provide adequate ventilation/exhaust system.*

*Personal Protection*

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### General protective measures:

*Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work. Wash contaminated clothes before reuse.*

### Respiratory protection:

*Provide adequate ventilation.  
Required in case of insufficient ventilation (EN 143 or 149).*

### Hand protection:

*Chemical protective gloves (EN 374 (Europe), F739 (US)).  
The manufacturer's directions for use should be observed because of the great diversity of types.*

### Protective glove material:

*For short-term exposure: butyl rubber, neoprene (< 60 min).  
For long-term exposure: nitrile or butyl rubber (BTT>480 min).*

### Eye protection:

*Tightly fitting safety goggles (EN 166).*

### Body protection:

*Protective clothing.*

### Environmental precautions:

*Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.*

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## 9. Physical and Chemical Properties

### 9.1. Information on Basic Physical and Chemical Properties

<i>Form:</i>	<i>liquid</i>
<i>Color:</i>	<i>colorless</i>
<i>Odor:</i>	<i>weak, characteristic</i>
<i>Odor threshold:</i>	<i>No information available.</i>
<i>pH-Value:</i>	<i>5 - 7 (10 %)</i>
<i>Melting temperature:</i>	<i>-6°C</i>
<i>Boiling temperature:</i>	<i>not applicable</i>
<i>Flash point:</i>	<i>not applicable</i>
<i>Evaporation rate:</i>	<i>No information available.</i>
<i>Flammability (solid, gas):</i>	<i>not applicable</i>
<i>Upper explosion limit:</i>	

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*no information available*

*Lower explosion limit:*

*no information available*

*Vapor pressure:*

*not determined*

*Vapor density:*

*No information available.*

*Density:*

*ca. 1.03 g/cm<sup>3</sup> (20°C)*

*Solubility in water:*

*miscible*

*Coefficient of variation (n-Octanol/Water):*

*no information available*

*Auto-ignition temperature:*

*365°C (DIN 51794)*

*Decomposition temperature:*

*No data available.*

*Viscosity, dynamic:*

*not available*

*Explosive properties:*

*not applicable*

*Oxidizing properties:*

*none*

*Bulk density:*

*not applicable*

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Other information:*

*No further information.*

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## 10. Stability and Reactivity

### 10.1. Reactivity

*Stable if used according to specifications.*

### 10.2. Chemical Stability

*Stable if used according to specifications.*

### 10.3. Possibility of Hazardous Reactions

*None if used according to specifications.*

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### 10.4. Conditions to Avoid

*Conditions to avoid:*

*No information available.*

*Thermal decomposition:*

*No data available.*

### 10.5. Incompatible Materials

*No information available.*

### 10.6. Hazardous Decomposition Products

*None if stored and handled according to specifications.*

### 10.7. Further Information

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## 11. Toxicological Information

### 11.1. Information on Toxicological Effects

*Acute Toxicity*

*LD50, oral: 555,56 mg/kg (calc.)*

*LD50, dermal: > 2000 mg/kg (rat)*

*LC50, inhalation: not determined*

*Primary effects*

*Irritant effect on skin: Non irritating (rabbit)*

*Irritant effect on eyes: Strong irritant with the danger of severe eye injury (rabbit).*

*Inhalation: No information available.*

*Ingestion: No information available*

*Sensitization: No relevant data found.*

*Mutagenicity: In vitro genetic-toxicity: Ames-Test negative (OECD 471)*

*Reproductive toxicity: No information available.*

*Carcinogenicity: No relevant data found.*

*Teratogenicity: No information available.*

*Specific target organ toxicity (STOT): No relevant data found.*

*Additional toxicological information: Aspiration hazard: not applicable*

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*Swallowing: harmful.*

*Eye contact: highly irritating to eyes. Risk of severe eye damage.*

### 12. Ecological Information

#### 12.1. Aquatic Toxicity

*Fish toxicity:*

*LC50: > 1 mg/l (96h)*

*Tridecanol, branched, ethoxylated: LC50: 10-100 mg/l (96h; OECD 203)*

*Daphnia toxicity:*

*EC50: > 1 mg/l (48h, Daphnia magna)*

*Tridecanol, branched, ethoxylated: EC50: 1-10 mg/l (48h; OECD 202)*

*Bacteria toxicity:*

*EC50: 38 mg/l (3h)*

*Tridecanol, branched, ethoxylated: IC50: > 100 mg/l (16h; DIN 38412-8)*

*Algae toxicity:*

*Tridecanol, branched, ethoxylated: EC50: 10-100 mg/l (72h; OECD 201); NOEC: 6 mg/l (72h; OECD 201)*

#### 12.2. Persistency and Degradability

*80 - 100 % (28d; OECD 302B; DOC-Analysis)*

*Tridecanol, branched, ethoxylated: 95 %, readily biodegradable (28d; OECD 301A)*

#### 12.3. Bioaccumulation

*No information available.*

#### 12.4. Mobility

*No information available.*

#### 12.5. Results of PBT- und vPvP Assessment

*On the basis of available data, the product does not contain and PBT or vPvB in percentage greater than 0.1 %.*

#### 12.6. Other Adverse Effects

*Water hazard class:*

*2 (German Regulation) (Assessment by list): hazardous.*

*Behaviour in sewage systems:*

*Further ecological effects:*

*Content below the limits recommended by ETAD.*

*BOD5: 4 mg O2/g*

*COD: 1769 mg O2/g*

*Organic carbon (TOC): 52 %*

*The product does not contain any phosphates or phosphorus organic compounds.*

*AOX Value:*

### 13. Disposal Considerations

#### 13.1. Waste Treatment Methods

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*Product:*

*Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant.*

*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.*

*Avoid dispersal of split material and runoff and contact with soil, waterways, drains and sewers.*

*European Waste Code (EWC):*

*Uncleaned packaging:*

*Uncontaminated packaging may be recycled.*

*Dispose of according to official local regulations.*

*Waste Code No.:*

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### 14. Transport Information

#### 14.1. UN Number

*ADR, IMDG, IATA*

#### 14.2. UN Proper Shipping Name

*ADR/RID:*

*No hazardous goods according to ADR (land transportation).*

*IMDG/IATA:*

*No hazardous goods according to IMDG.*

#### 14.3. Transport Hazard Classes

*ADR Class:*

*not applicable*

*Hazard no.:*

*Classification code:*

*Tunnel restriction code:*

*IMDG Class (sea):*

*Hazard no.:*

*EmS No.:*

*IATA Class:*

*Hazard no.:*

#### 14.4. Packaging Group

*ADR/RID:*

*not applicable*

*IMDG:*

*IATA:*

#### 14.5. Environmental Hazards

*None*

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### 14.6. Special Precautions for User

*Always transport containers in an upright position to avoid spilling. Take care to inform all involved persons how to handle product in case of leak (see Sections 6-8).*

### 14.7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

*not applicable*

### 14.8. Further Information

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## 15. Regulatory Information

### 15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

*Water hazard class:*

*2, hazardous for water (German Regulation)*

*Local regulations on chemical accidents:*

*Employment restrictions:*

*Restriction and prohibition of application:*

*EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: not applicable*

*Technical instructions on air quality:*

*5.2.5.: Organic substances*

### 15.2. Chemical Safety Assessment

### 15.3. Further Information

*Listed in the following inventories:*

*EINECS (EU), TSCA (US), AICS (AUS), DSL (CA), ENCS (JP), KECI (KR), PICCS (PH), IECSC (CN), NZIoC (NZ)*

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## 16. Other Information

*This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.*