

# Safety Data Sheet

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



**79625**

**Incra Lac**

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Revised edition: 21.04.2016

Version: 1

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

### 1.1. Product Identifier

*Product Name:* Incra Lac

*Article No.:* 79625

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

*Identified uses:*

Copper protective lacquer

*Uses advised against:*

We have no information on any restrictions for this product.

### 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.com

*EMail:* info@kremer-pigmente.com

*Importer:*

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### 1.4. Emergency No.

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

### 1.4.2 Poison Center:

## 2. Hazards Identification

### 2.1. Classification of the Substance or Mixture

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

Flammable liquids, hazard category 2

Skin irritation, hazard category 2

Specific Target Organ Toxicity (single exposure), hazard category 3

Reproductive toxicity, hazard category 2

Specific target organ toxicity (repeated exposure), hazard category 2

H225 Highly flammable liquid and vapour.

Cat.: 2

H315 Causes skin irritation.

Cat.: 2

H336 May cause drowsiness or dizziness.

Cat.: 3

H361d Suspected of damaging the unborn child.

Cat.: 2

H373 May cause damage to organs through prolonged or repeated exposure.

Cat.: 2

*Possible Environmental Effects:*

See Section 12.

### 2.2. Label Elements

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

*Hazard designation:*



GHS02



GHS07



GHS08-2

*Signal word:*

Danger

*Hazard designation:*

H225	Highly flammable liquid and vapour.
H315	Causes skin 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.

*Safety designation:*

P102	Keep out of reach of children.
P280a	Wear protective gloves/ clothing.
P301+P310	If swallowed: Immediately call a poison center or physician.
P301+P330+P331	If swallowed: Rinse mouth. Do not induce vomiting.

*Hazardous components for labelling:*

Toluene

## 2. 3. Other Hazards

## 3. Composition/Information on Ingredients

### 3. 1. Substance

### 3. 2. Mixture

*Chemical Characterization:* Copper coating, contains aromatics

*Information on Components / Hazardous  
Ingredients:*

Toluene (H225-304-315-336-361d-373-412); REACH Reg.-No. 02-2119471310-51-xxxx	30 - 40 %	CAS-Nr: 108-88-3 EINECS-Nr: 203-625-9 EC-Nr: 601-021-00-3
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*Additional information:*

## 4. First Aid Measures

### 4. 1. Description of the First Aid Measures

*General information:*

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*Take person away from hazardous area.  
Give artificial respiration in case breathing is not regular or if it has stopped.  
Remove contaminated clothes immediately.  
Intoxication symptoms may occur after several hours, therefore a 48 hour medical observation is necessary.*

*After inhalation:*

*Supply fresh air. Consult physician if symptoms persist.  
In case of unconsciousness place patient stable in side position for transportation.*

*After skin contact:*

*Remove contaminated clothing immediately. Wash off immediately with plenty of water and soap.  
If symptoms persist, consult a physician.*

*After eye contact:*

*Rinse open eyes with plenty of water for at least 15 minutes.  
Consult physician.*

*After ingestion:*

*Rinse mouth with water and give plenty of water to drink. Consult a physician.  
Do not induce vomiting.*

## 4. 2. Most important Symptoms and Effects, both Acute and Delayed

*Symptoms:*

*Inhalation: may cause depression of the central nervous system and narcosis.  
Inhalation: can cause cardiac dysrhythmia.*

*Effects:*

*No further information available.*

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

*Treatment:*

*Treat symptomatically.  
Intoxication symptoms may occur after several hours, therefore a 48 hour medical observation is necessary.*

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## 5. Fire-Fighting Measures

### 5. 1. Extinguishing Media

*Suitable extinguishing media:*

*Water mist, extinguishing powder, foam, carbon dioxide.*

*Unsuitable extinguishing media:*

*Never apply a strong water jet.*

### 5. 2. Special Hazards arising from the Substance or Mixture

*Special hazards:*

*Highly flammable.  
Fumes can form an explosive mixture with air.  
In case of fire: formation of carbon monoxide.*

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## 5.3. Advice for Firefighters

*Protective equipment:*

*Wear self-contained respiratory protective device and full protective gear.*

*Further information:*

*Cool closed containers exposed to fire with water mist.  
Collect contaminated extinguishing water and debris separately;  
avoid contamination of sewage system.*

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## 6. Accidental Release Measures

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

*Personal precautions:*

*Wear appropriate protective equipment. Keep spectators away.  
Ensure adequate ventilation.  
Avoid contact with skin and eyes. Do not ingest or inhale.  
Keep away from sources of ignition. No smoking.*

### 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:*

*Contain with non-flammable absorbent material (e.g. sand, diatomaceous earth, vermiculite) and dispose accordingly.  
Ensure adequate ventilation.  
This product and its container must be disposed as hazardous waste.*

### 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:*

*The usual precautionary measures are to be adhered to when handling chemicals.  
Provide adequate ventilation.  
Keep containers tightly closed.  
Avoid contact with eyes and skin.  
A nearby eyewash facility should be available for emergencies.*

*Hygienic measures:*

*Take off contaminated clothing immediately.  
Do not inhale gas/fumes/vapours/aerosols.  
Avoid contact with eyes and skin.  
Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.*

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

### *Storage conditions:*

*Store in tightly sealed containers in a cool and well ventilated location.*

*Keep away from flammable materials.*

*Do not store together with strong acids and oxidants.*

*Protect product from direct sunlight.*

### *Requirements for storage areas and containers:*

*Store in a room with a solvent-proof floor.*

*Suitable container material: stainless steel.*

### *Information on fire and explosion protection:*

*Keep away from sources of ignition - do not smoke. Take measures to prevent electrostatic discharge.*

*Use only explosion protected devices.*

*Combustible liquid.*

*Vapors may form an explosive mixture with air. Vapor is heavier than air and spreads along the ground.*

### *Storage class:*

*3; Flammable liquids (TRGS 510)*

### *Further Information:*

*No information available.*

## 7.3. Specific End Use(s)

### *Further information:*

*No information available.*

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## 8. Exposure Controls/Personal Protection

### 8.1. Parameters to be Controlled

#### *Parameters to be controlled (DE):*

*Toluene (CAS 108-88-3); TWA (D): 190 mg/m<sup>3</sup>, 50 ppm (4)*

*TRGS 900, Skin designation: can be absorbed by skin.*

*Y: No teratogenic risk when the exposure limit values (ELV) and biological limit values (BLV) are adhered to.*

#### *Parameters to be controlled:*

*Toluene*

*TWA (EU ELV): 192 mg/m<sup>3</sup>; 50 ppm*

*STEL (EU ELV): 384 mg/m<sup>3</sup>; 100 ppm*

#### *Derived No-Effect Level (DNEL):*

*Toluene (108-88-3):*

*192 mg/m<sup>3</sup> (worker, inhalation, long-term exposition - systemic and local effects)*

*384 mg/m<sup>3</sup> (worker, inhalation, short-term exposition - systemic and local effects)*

*384 mg/kg bw/d (worker, skin contact, long-term exposition - systemic effects)*

*56.5 mg/m<sup>3</sup> (consumer, inhalation, long-term exposition - systemic effects)*

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*and local effects)*  
*226 mg/m<sup>3</sup> (consumer, inhalation, short-term exposition - systemic and local effects)*  
*226 mg/kg bw/d (consumer, skin contact, long-term exposition - systemic effects)*  
*8.13 mg/kg bw/d (consumer, swallowing, long-term exposition - systemic effects)*

*Predicted No-Effect Concentration (PNEC):*

*Toluene (108-88-3):*  
*Fresh water / Seawater: 0.68 mg/l*  
*Fresh water sediment / Sea water sediment: 16.39 mg/kg dw*  
*Sporadic release: 0.68 mg/l*  
*Sewage treatment system (STP): 13.61 mg/l*  
*Soil: 2.89 mg/kg dw*

*Additional Information:*

*Biological limit value (TRGS 903):*  
*Toluene: 1.5 mg/l (O-Cresol (after hydrolysis), urine; end of shift)*  
*Toluene: 600 µg/l (blood; end of exposure/shift)*

## 8.2. Exposure Controls

*Technical protective measures:*

*Adequate ventilation to control airborne concentrations below the exposure limits.*

*Personal Protection*

*General protective measures:*

*Avoid contact with eyes and skin.*  
*Remove contaminated clothing immediately.*  
*Do not inhale gas/fumes/vapor/aerosol.*  
*Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.*

*Respiratory protection:*

*Respiratory equipment required in case of insufficient ventilation, filter type A.*

*Hand protection:*

*Protective gloves (EN 374)*  
*Each work area must have adequate protective gloves.*  
*The manufacturer's directions for use should be observed because of the great diversity of types.*

*Protective glove material:*

*Fluoro carbon rubber - FKM (480 min; > 0.4 mm).*  
*Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers.*

*Eye protection:*

*Safety glasses with protective shields (EN 166).*

*Body protection:*

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*Protective clothing.*

*Environmental precautions:*

*Prevent contamination of open water ways and sewage system.  
Avoid contamination of ground water.*

*Contact local authorities if large spillages cannot be contained.*

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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>aromatic</i>
<i>Odor threshold:</i>	<i>not determined</i>
<i>pH-Value:</i>	<i>not applicable</i>
<i>Melting temperature:</i>	<i>not determined</i>
<i>Boiling temperature:</i>	<i>not determined</i>
<i>Flash point:</i>	<i>4°C</i>
<i>Evaporation rate:</i>	<i>No information available.</i>
<i>Flammability (solid, gas):</i>	<i>not applicable</i>
<i>Upper explosion limit:</i>	<i>no information available</i>
<i>Lower explosion limit:</i>	<i>no information available</i>
<i>Vapor pressure:</i>	<i>not determined</i>
<i>Vapor density:</i>	
<i>Density:</i>	<i>not applicable</i>
<i>Solubility in water:</i>	<i>insoluble</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>no information available</i>
<i>Auto-ignition temperature:</i>	<i>No information available.</i>
<i>Decomposition temperature:</i>	<i>No data available.</i>

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*Viscosity, dynamic:*

*not available*

*Explosive properties:*

*Product is not explosive; however, an explosive vapor/air mixture can be formed.*

*Oxidizing properties:*

*no information available*

*Bulk density:*

## 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Other information:*

*No further information.*

---

## 10. Stability and Reactivity

### 10.1. Reactivity

*No decomposition if used according to specifications.*

### 10.2. Chemical Stability

*Stable if used according to specifications.*

### 10.3. Possibility of Hazardous Reactions

*Reacts with strong acids and oxidizing agents.  
Vapors in combination with air can form an explosive compound.*

### 10.4. Conditions to Avoid

*Conditions to avoid:*

*Avoid contact with heat, sparks and open fire.  
Avoid direct sunlight.*

*Thermal decomposition:*

*No data available.*

### 10.5. Incompatible Materials

*Strong acids, strong bases and strong oxidizing agents.  
Halogenated compounds.*

### 10.6. Hazardous Decomposition Products

*Carbon oxides*

### 10.7. Further Information

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## 11. Toxicological Information

### 11.1. Information on Toxicological Effects

*Acute Toxicity*

*Toluene (108-88-3):*

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<i>LD50, oral:</i>	<i>5580 mg/kg (rat, m; OECD 401)</i>
<i>LD50, dermal:</i>	<i>&gt; 5000 mg/kg (rabbit, m)</i>
<i>LC50, inhalation:</i>	<i>28.1 mg/l (4h, rat (m/f); OECD 403)</i> <i>25.7 mg/l (4h, rat (m); OECD 403)</i> <i>30 mg/l (4h, rat (f); OECD 403)</i>
<i>Primary effects</i>	
<i>Irritant effect on skin:</i>	<i>Causes skin irritation (rabbit; OECD 404). Risk of skin resorption.</i>
<i>Irritant effect on eyes:</i>	<i>Non-irritating to eyes (rabbit; OECD 405)</i>
<i>Inhalation:</i>	<i>No information available.</i>
<i>Ingestion:</i>	<i>No information available</i>
<i>Sensitization:</i>	<i>No sensitizing effects known (guinea pig; OECD 406).</i>
<i>Mutagenicity:</i>	<i>In vitro genetic-toxicity: no mutagenic effects</i> <i>In vivo genetic-toxicity: no mutagenic effects</i>
<i>Reproductive toxicity:</i>	<i>Animal studies showed no adverse effect on the fertility.</i>
<i>Carcinogenicity:</i>	<i>No cancerogenic effect (in animal studies).</i>
<i>Teratogenicity:</i>	<i>Animal studies showed teratogenic effects.</i> <i>Suspected of damaging fertility.</i>
<i>Specific target organ toxicity (STOT):</i>	<i>Single exposure (inhalation): Target organs: central nervous system.</i> <i>May cause drowsiness and dizziness.</i> <i>Repeated exposure (inhalation): can damage the organs after repeated or prolonged exposure.</i>
<i>Additional toxicological information:</i>	<i>Aspiration hazard:</i> <i>May be fatal if swallowed and enters airways.</i>

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## 12. Ecological Information

### 12.1. Aquatic Toxicity

*Toluene (108-88-3):*

*Fish toxicity:*

*LC50: 5.5 mg/l (96h, Oncorhynchus kisutch)*  
*NOEC: 1.39 mg/l (40d, Oncorhynchus kisutch)*

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## *Daphnia toxicity:*

*EC50: 11.5 mg/l (48h, Ceriodaphnia dubia; US-EPA)*

*NOEC: 0.74 mg/l (7d, Ceriodaphnia dubia)*

## *Bacteria toxicity:*

*EC50: 84 mg/l (24h, Nitrosomas sp)*

## *Algae toxicity:*

*EC50: 134 mg/l (3h, Chlamydomonas angulosa)*

## 12. 2. Persistence and Degradability

*86 % (20d); readily biodegradable*

*Oxidizes rapidly by photo-chemical reactions in air.*

## 12. 3. Bioaccumulation

*log Kow: 2.73 (20°C; pH-Value 7)*

*Bioconcentration factor (BCF): 90; low bioaccumulation*

## 12. 4. Mobility

*Product floats on water.*

*Mobile in soil.*

## 12. 5. Results of PBT- und vPvP Assessment

*This product is neither a PBT or vPvB substance nor does it contain a PBT or vPvB substance.*

## 12. 6. Other Adverse Effects

### *Water hazard class:*

*Do not let product contaminate ground water, waterways or sewage system.*

### *Behaviour in sewage systems:*

### *Further ecological effects:*

### *AOX Value:*

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## 13. Disposal Considerations

### 13. 1. Waste Treatment Methods

#### *Product:*

*In accordance with current regulations, product may be taken to an incineration plant.*

#### *European Waste Code (EWC):*

*The waste code is determined according to the kind of waste and industry stated in the European Waste Catalogue.*

#### *Uncleaned packaging:*

*Uncontaminated packaging may be recycled. Completely empty packaging can be disposed of with the regular waste.  
Do not puncture, cut or weld uncleaned drums. Risk of explosion.  
Contaminated packaging must be disposed like the substance.*

#### *Waste Code No.:*

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## 14. Transport Information

### 14. 1. UN Number

*ADR, IMDG, IATA*

*1263*

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## 14. 2. UN Proper Shipping Name

ADR/RID: FARBE

IMDG/IATA: PAINT

## 14. 3. Transport Hazard Classes

ADR Class: 3

Hazard no.: 3

Classification code: F1

Tunnel restriction code: D/E

IMDG Class (sea): 3

Hazard no.: 3

EmS No.: F-E, S-E

IATA Class: 3

Hazard no.: 3

## 14. 4. Packaging Group

ADR/RID: II

IMDG: II

IATA: II

## 14. 5. Environmental Hazards

Labelling according 5.2.1.8 ADR/RID: no

Labelling according 5.2.1.6.3 IMDG: no

Classification as environmentally hazardous according 2.9.3  
IMDG: no

Labelled with "P" according 2.10 IMDG: no

## 14. 6. Special Precautions for User

not applicable

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

IMDG: 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:

Toluene (108-88-3):

Underlies the Accident Ordinance 7b.

Seveso-III Directive (2012/18/EU):

Quantity 1: 10 t; Quantity 2: 50 t

Part 1: Hazard categories of hazardous substances; P5a:  
Flammable liquids, Category 1, parts of Category 2 or 3

Employment restrictions:

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*The employment restrictions for expectant and nursing mothers, and for young workers are to be observed.*

*Restriction and prohibition of application:*

*Toluene (108-88-3):*

*EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles, Registered no. 48*

*Technical instructions on air quality:*

## 15. 2. Chemical Safety Assessment

*This product contains substances for which a Chemical Safety Assessment has been carried out.*

## 15. 3. Further Information

*Toluol (108-88-3):*

*Listed in the following inventories:*

*EINECS (203-625-9), TSCA, AICS (AUS), DSL, INV (CA), ENCS (JP)(3)-2, ISHL (JP)(3)-2, KECI (KR) KE-33936/97-1-298, PICCS (PH)*

*Regulation (EC) 649/2012 concerning the export and import of dangerous chemicals: Not applicable*

*Regulation (EC) 273/2004, On Drug Precursors, Category 3: CN Code 2902.30.00*

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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.*