

## SAFETY DATA SHEET Tycote #20

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MSDS088 Revision 3  
Revision Date 06/25/2015

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** Tycote #20  
**Additional Names** None  
**Description** Aqueous based ink containing acrylic resins.  
**Intended Use** Manufacture of temperature indicating products and temperature-sensitive decorative effects.

**Company** LCR Hallcrest  
 1911 Pickwick Lane  
 Glenview  
 IL 60026 USA

**Web** [www.hallcrest.com](http://www.hallcrest.com)  
**Telephone** +1 847 998 8580  
**Fax** +1 847 998 6866  
**Email** [sales@hallcrest.com](mailto:sales@hallcrest.com)

**Emergency telephone number** Chemtel Domestic: 800-255-3924  
 Intl: +01-813-248-0585

### 2. HAZARDS IDENTIFICATION.

**GHS Classification** None

**GHS Label Elements**

**Pictograms** None required.

**Signal Word** None  
**Hazard** None

**Statements**  
**Precautionary Statement** None

### 3. COMPOSITION / INFORMATION ON INGREDIENTS.

Hazardous ingredients	Classification	Conc.	CAS
1,2-Propylene glycol	None	1-5%	57-55-6
Nonylphenol ethoxylate	Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Acute aquatic toxicity (Category 3), H402 Chronic aquatic toxicity (Category 3), H412	<0.5%	9016-45-9

### 4. FIRST AID MEASURES

#### Description of first aid measures

**Skin contact** Wash off immediately with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation (redness, rash, blistering) develops, get medical attention.

**Eye contact** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if irritation develops and persists

**Inhalation** Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.

**Ingestion** DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

#### Most important symptoms and effect, both acute or delayed.

None under normal use conditions.

#### Indication of any immediate medical attention and special treatment needed.

Treat symptomatically.

**5. FIRE FIGHTING MEASURES**

**Extinguishing Media** Foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Specific hazards arising from the chemical** Burning produces irritating, toxic and obnoxious fumes.

**Special protective actions for fire-fighters** Wear suitable respiratory equipment when necessary.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, protective equipment and emergency procedures** Ensure adequate ventilation of the working area. Wear suitable protective equipment.

**Environmental Precautions** Do not allow product to enter drains. Prevent further spillage if safe.

**Methods and material for containment and cleaning up** Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labeled containers for disposal. Clean spillage area thoroughly with plenty of water.

**7. HANDLING AND STORAGE**

**Individual protection measures** Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Ensure adequate ventilation.

**Conditions for safe storage, including incompatibilities:** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep container closed when not in use. Keep out of the reach of children.  
 Incompatible with: Strong acids. Strong bases. Strong oxidizing agents.  
 Reducing agent.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Components with workplace control parameters.**

1,2-Propylene glycol 57-55-6	TWA: 10 mg/m <sup>3</sup> (aerosol only) TWA: 50 ppm (aerosol and vapor) TWA: 155 mg/m <sup>3</sup> (aerosol and vapor)
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**Individual protection measures** Wear chemical protective clothing.

**Eye/face protection** Wear safety glasses with side shields (or goggles). If splashes are likely to occur.: Wear suitable face shield. Ensure that eyewash stations and safety showers are close to the workstation location.

**Skin protection – Hand protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

**Environmental Exposure Controls** Ensure adequate ventilation of the working area.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** Liquid  
**Colors** Off-white  
**Odor** Characteristic  
**Odor threshold** N/A  
**pH** N/A  
**Melting Point/Freezing Point** No testing available.  
**Initial Boiling Point and Boiling Range** 100°C

<b>Flash Point</b>	> 94°C
<b>Evaporation rate</b>	No testing available.
<b>Flammability</b>	No testing available.
<b>Upper/Lower Flammability or Explosive Limits</b>	No testing available.
<b>Vapor Pressure</b>	No testing available.
<b>Solubility</b>	Slightly Soluble in water.

**10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	Avoid sparks, flames, heat and sources of ignition.
<b>Chemical Stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Vapours may form explosive mixture with air..
<b>Conditions to avoid</b>	Heat, flames, sparks
<b>Incompatible materials</b>	Avoid contact with: Strong bases.
<b>Hazardous Decomposition Products</b>	No data available.

**11. TOXICOLOGICAL INFORMATION**

<b>Toxicological Information</b>	
<b>Acute Toxicity</b>	
<b>1,2-Propylene glycol</b>	Oral LD50 (Rat) – 20000mg/kg Dermal LD50 (Rabbit)– 20800 mg/kg
<b>Nonylphenol ethoxylate</b>	Oral LD50 (Rat) – 1310mg/kg Dermal LD50 (Rabbit)– 2 mL/kg
<b>Skin corrosion/irritation</b>	No test data available.
<b>Serious eye damage/irritation</b>	No test data available.
<b>Respiratory or skin sensitization</b>	No test data available
<b>Germ cell mutagenicity</b>	No test data available
<b>Carcinogenicity</b>	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, or OSHA
<b>Reproductive toxicity</b>	No test data available
<b>STOT-single exposure</b>	No test data available
<b>STOT-repeat exposure</b>	No test data available
<b>Aspiration hazard</b>	No test data available
<b>Additional Information</b>	none

**12. ECOLOGICAL INFORMATION**

<b>Toxicity</b>		
<b>1,2-Propylene glycol</b>	<b>Algae/aquatic plants</b>	96h EC50 Pseudokirchneriella subcapitata: 19000 mg/L
	<b>Fish</b>	96h LC50 Oncorhynchus mykiss: 41 - 47 mL/L [static] 96h LC50 Pimephales promelas: 51400 mg/L [static] 96h LC50 Oncorhynchus mykiss: 51600 mg/L [static] 96h LC50 Pimephales promelas: 710 mg/L
	<b>Crustacea</b>	48h EC50 Daphnia magna: >1000 mg/L [static] 24h EC50 Daphnia magna: >10000 mg/L
<b>Persistence and degradability</b>	No data available	
<b>Bioaccumulative potential</b>	No bioaccumulation is to be expected (log Pow <= 4)	
<b>Mobility in soil</b>	No data available	
<b>Other adverse effects</b>	No data available	

**13. DISPOSAL CONSIDERATIONS**

<b>General information</b>	Dispose of in compliance with all local and national regulations.
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**14. TRANSPORT INFORMATION**

<b>UN Number</b>	This product is not classified as dangerous for carriage.
<b>UN Proper Shipping Name</b>	This product is not classified as dangerous for carriage.
<b>Transport Hazard class(es)</b>	This product is not classified as dangerous for carriage.
<b>Packing Group (if applicable)</b>	This product is not classified as dangerous for carriage.
<b>Environmental Hazards</b>	This product is not classified as dangerous for carriage.
<b>Special Precautions for the User</b>	This product is not classified as dangerous for carriage.
<b>DOT</b>	This product is not classified as dangerous for carriage.

**IMDG** This product is not classified as dangerous for carriage.  
**IATA** This product is not classified as dangerous for carriage.

**Further Information** This product is not classified as dangerous for carriage

**15. REGULATORY INFORMATION**

International Inventories All components are listed on the TSCA Inventory. For further information, please contact: Supplier (manufacturer/importer/downstream user/distributor). U.S. Federal Regulations SARA 313 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372. Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61) This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

Component	Minnesota Right To Know
1,2-Propylene glycol	X

Component	New Jersey Right To Know
1,2-Propylene glycol	X

Component	Pennsylvania Right To Know
1,2-Propylene glycol	X

**16. OTHER INFORMATION**

**Revision** Revision 3 – 6-25-2015: Major revision to include the requirements of the HCS/HazCom 2012 Final Rule. 2-Propanol hazards were added.

**Further information** The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

**HMIS LABELLING** HEALTH 1, FLAMMABILITY 3, PHYSICAL HAZARD A