

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
Telephone	+1 847 998 8580
Fax	+1 847 998 6866
Email	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 (CO2). 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/m3 (aerosol only) TWA: 50 ppm (aerosol and vapor) TWA: 155 mg/m3 (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

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

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Toxicological Information

Acute Toxicity	
1,2-Propylene glycol	Oral LD50 (Rat) – 20000mg/kg Dermal LD50 (Rabbit)– 20800 mg/kg
Nonylphenol ethoxylate	Oral LD50 (Rat) – 1310mg/kg Dermal LD50 (Rabbit)– 2 mL/kg
Skin corrosion/irritation	No test data available.
Serious eye damage/irritation	No test data available.
Respiratory or skin sensitization	No test data available
Germ cell mutagenicity	No test data available
Carcinogenicity	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
Reproductive toxicity	No test data available
STOT-single exposure	No test data available
STOT-repeat exposure	No test data available
Aspiration hazard	No test data available
Additional Information	none

12. ECOLOGICAL INFORMATION

Toxicity

1,2-Propylene glycol	Algae/aquatic plants	96h EC50 Pseudokirchneriella subcapitata: 19000 mg/L
	Fish	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
	Crustacea	48h EC50 Daphnia magna: >1000 mg/L [static] 24h EC50 Daphnia magna: >10000 mg/L

Persistence and degradability	No data available
Bioaccumulative potential	No bioaccumulation is to be expected (log Pow <= 4)
Mobility in soil	No data available
Other adverse effects	No data available

13. DISPOSAL CONSIDERATIONS

General information	Dispose of in compliance with all local and national regulations.
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14. TRANSPORT INFORMATION

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

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