

PRODUCT NAME: HARDENER
PRODUCT NUMBER/SIZE: TG-20

Date: 30/7/2020

SECTION 1 Identification of the Substance and of the Company/Undertaking

MANUFACTURER'S NAME: Jewel Paints (West Midlands) Ltd
ADDRESS: Units 313-317, Heath Street, Smethwick, Birmingham, B66 2QY
PRODUCT DESCRIPTION: TG-20 HARDENER
COMPANY PHONE: 0121 558 6191
EMERGENCY TELEPHONE: 0121 558 6191 (Open Hrs Only)

SECTION 2 Hazards Identification

Classification:

Flammable Liquids	Category 2
Skin Corrosion/Irritation	Category 2
Serious Eye damage/Eye irritation	Category 2
Skin sensitization	Category 1
Specific target organ toxicity - single exposure	Category 3

Label Pictogram(s):



Signal Word: **DANGER**

Hazard Phrases: Highly flammable liquid and vapor
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
May cause respiratory irritation

Precautionary Phrases: Keep away from heat, sparks and open flames. No smoking. Do not spray on open flames or other ignition source. Do not pierce or burn, even after use. Avoid breathing spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Wear eye protection. Use only outdoors or in a well-ventilated area.

Response: IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do not induce vomiting. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If

exposed, concerned or eye irritation persists or you feel unwell, get medical attention.

Storage / Disposal:

Protect from sunlight. Store locked up in a well-ventilated place. Keep container tightly closed. Keep cool .Dispose of contents/ container to an approved waste disposal plant.

Other:

Keep out of reach of children. Read label before use. If medical advice is needed, have product container or label at hand.

SECTION 3 Composition/Information on Ingredients

COMPONENTS	CAS Number	Conc.
Xylene	1330-20-7	10-20%
Butyl Acetate	123-86-4	20-30%
Hexamethylene diisocyanate	28182-81-2	40-50%
Propylene glycol methyl ether acetate	108-65-6	10-20%

SECTION 4 First Aid Measures

First Aid Measures

Immediate Medical Attention:

Treat symptomatically.

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses If present and easy to do .continue rinsing. If eye irritation persists: Get medical advice/attention

Skin

If skin irritation or rash occurs: Get medical advice/attention. IF ON SKIN (or hair)):Take off immediately all contaminated clothing. Rinse skin with water /shower. Wash contaminated clothing before reuse

Ingestion

Do Not induce vomiting. If Swallowed: Call a POISON CENTER or doctor/ Physician if you feel unwell

Inhalation IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Signs & Symptoms Of Over Exposure: No information available.

Special Treatment: No information available.

SECTION 5 Fire Fighting Measures

Extinguishing media: Dry chemical ,CO2,water spray or alcohol-resistant foam
Not to be used for safety reasons: Strong water jet

Hazardous Combustion: Burning produces heavy smoke.Fire may produce irritating and/or Toxic gases. In the event of fire and /or explosion do not breathe Fumes. May cause sensitization by skin contact.

Protective Equipment and Precautions for firefighters: Wear self-contained breathing apparatus and protective suit. Cool containers with flooding quantities of water until well after fire is Out. Do not allow run-off from fire-fighting to enter drains or water Courses.

Flammability per Flame Projection Test: No information available.

SECTION 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Avoid breathing vapors or mists. Remove all sources of ignition. Use personal protective equipment as required. Avoid contact With skin,eyes or clothing.Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Take precautionary measures against static discharges

Methods/materials for containment and cleanup: **Methods of containment**
Prevent further leakage or spillage if safe to do so.

Methods of cleaning Up
Dispose of waste product or used containers according to local regulations. Clean with detergents. Avoid solvent cleaners. Dam Up.Soak up with inert absorbent material(e.g.sand,silica gel,acid Binder,universal binder,sawdust).Pick up and transfer to properly Labeled containers.clean contaminated surface thoroughly. Take up mechanically,placing in appropriate containers for disposal

Environmental precautions: and seal in labeled drums for disposal.
No information available.

SECTION 7 Handling and Storage

Precautions for Safe Handling: No smoking, naked lights, heat or ignition sources.

Conditions for Safe Storage: Keep/store only in original container. Store in accordance with local regulations. Keep unauthorized personnel away. Containers that have been opened must be carefully resealed and kept to prevent leakage. Keep container tightly closed in a dry and well-ventilated place. Keep tightly closed in a dry and cool place

SECTION 8 Exposure Controls/Personal Protection

COMPONENTS	CAS Number	OSHA PEL	ACGIH TLV
No information available.			

Engineering Controls: Ensure adequate ventilation, Especially in confined areas Provide local exhaust Ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Personal Protection: Put on adequate protective equipment, Do not breathe vapour.
Ensure adequate ventilation. Sources of ignition should be kept clear

Respiratory protection: In case of inadequate ventilation wear respiratory protection.

Hand protection: When skin exposure may occur, advice may be sought from the glove suppliers on appropriate types. Barrier creams may help to protect exposed skin but are not suitable for full physical protection.

Eye protection: Tight sealing safety goggles

Skin protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls As appropriate, to prevent skin contact. Wear suitable protective clothing, Personnel should wear anti-static Clothing made of natural fiber or of high temperature resistant synthetic fiber.

Work/Hygienic/Maintenance Practices: No information available.

SECTION 9 Physical and Chemical Properties

Appearance and Physical State:	Liquid
Odor:	Solvent
Odor Threshold:	Not Available
pH:	N/A
Melting Point/Freezing Point:	Not Available
Initial boiling point & boiling range:	110oC/527oF

Flash Point:	33oC /92oF
Evaporation rate:	Not Available
Flammability (solid, gas)	Not Available
Upper/lower flammability or explosive limits	Not Available
Vapor pressure	N/A
Vapor density	Not Available
Relative density	Not Available
Specific gravity	0.88 <u>+0.03g/cm3</u>
Solubility	N/A
Partition Coefficient n-Octanol/Water	Not Available
Auto-ignition Temperature:	Not Available
Decomposition Temperature:	Not Available
Viscosity:	10-13s (23Oc)DIN 53211

SECTION 10 Stability and Reactivity

Reactivity:	No information available.
Chemical Stability:	Stable under normal conditions
Possibility of hazardous reactions:	None under normal processing
Conditions to avoid (e.g. static discharge, shock or vibration):	Heat, flames and sparks
Incompatibilities:	Strong oxidizing agents
Hazardous decomposition products:	Carbon monoxide. Carbon dioxide(CO2). Chlorine
Hazardous polymerization:	None under normal processing

SECTION 11 Toxicological Information

Likely Routes of Exposure:	No information available.
Symptoms:	No information available.
Delayed and Immediate Effects:	No information available.
Acute Health Effects:	SWALLOWED Not normally a hazard due to physical form of product. Ingestion may result in nausea, pain, vomiting. Vomit entering the lungs by aspiration may cause potentially lethal chemical pneumonitis. Considered an unlikely route of entry in commercial/industrial environments

EYE

The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

SKIN

Spray mist may produce discomfort. Toxic effects may result from skin absorption. The material may accentuate any pre-existing skin condition. The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (non-allergic). This form of dermatitis is often characterized by skin redness (erythema) and swelling the epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.

INHALED

Inhalation hazard is increased at higher temperatures. Acute effects from inhalation of high concentrations of vapor are pulmonary irritation, including coughing, with nausea; central nervous system depression characterized by headache and dizziness, increased reaction time, fatigue and loss of co-ordination. If exposure to highly concentrated solvent atmosphere is prolonged this may lead to narcosis, unconsciousness, even coma and possible death.

WARNING: Intentional misuse by concentrating/inhaling contents may be lethal.

Toxicological Information: No information available.

Carcinogen Information: No information available.

SECTION 12 Ecological Information

Eco-toxicity: There is no data available on the product itself. The product should not be allowed to enter drains or watercourses or be deposited where it can affect ground or surface water.

Persistence and Degradability: No data available.

Bioaccumulation Potential: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

SECTION 13 Disposal Considerations

Storage and Disposal Disposal should be in accordance with applicable regional, national and local laws and regulations.

Waste Disposal Method: DO NOT incinerate or puncture cans. Bury residues and emptied cans at an approved site.

SECTION 14 Transport Information

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

Additional Shipping Information:

U.S. DOT UN/ID Number: UN1263
Proper shipping name: Paint Related Material
Hazard class: 3.
Packing Group: III
Exceptions: May be shipped as consumer commodity or limited quantity
Environmental Hazards: None
Transport in Bulk: Not applicable

IMO/IMDG UN/ID Number: UN1263
Proper shipping name: Paint Related Material
Hazard class: 3.
Packing Group: III
Exceptions: May be shipped as a limited quantity
Environmental Hazards: None
Transport in Bulk: Not applicable
Special Precautions: EMS: F-E,S-E

ICAO/IATA UN/ID Number: UN1263
Proper shipping name: Paint Related Material , flammable
Hazard Class: 3.
Packing Group: III
Exceptions: May be shipped as consumer commodity or limited quantity
Environmental Hazards: None
Transport in Bulk: Not applicable
Special Precautions: None

Canada (TDG) UN/ID Number: UN1263
Proper shipping name: Paint Related Material
Hazard class: 3.
Packing Group: III
Exceptions: May be shipped as consumer commodity or limited quantity

Environmental Hazards: None
Transport in Bulk: Not applicable

Europe (ADR/RID) UN/ID Number: UN1263
Proper shipping name: Paint Related Material, flammable
Hazard class: 3.
Packing Group: III
Exceptions: May be shipped as limited quantity
Environmental Hazards: None
Transport in Bulk: Not applicable
Special Precautions: None

SECTION 15 Regulatory Information

The Air Pollution Control requirements of regulations made under the Environmental Protection Act may apply to the use of this product.

Comply with local regulations.

SECTION 16 Other Information

HMIS
Health hazards 2
Flammability 3
Physical hazards 0
Personal Protection X

The data given here is based on current knowledge. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not imply any warranty with regard to