

# **SAFETY DATA SHEET**

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### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Product code 36140

Product name Halftone Extender Base (MTR)
Product category 3600 Series UV Screen Ink

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use Recommended use Printing operations

Details of the supplier of the safety data sheet

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UNITED KINGDOM
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24 Hour Emergency Phone Number

### 2. HAZARDS IDENTIFICATION

#### Classification

Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitization	Category 1A - (H317)
Reproductive toxicity	Category 2 - (H361)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
Chronic aquatic toxicity	Category 2 - (H411)

#### Label elements







#### Signal Word Warning

#### **Hazard Statements**

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child H373 - May cause damage to organs through prolonged or repeated exposure

#### H411 - Toxic to aquatic life with long lasting effects

#### **Precautionary Statements**

P264 - Wash face, hands and any exposed skin thoroughly after handling

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P202 - Do not handle until all safety precautions have been read and understood

P280 - Wear protective gloves/protective clothing/eye protection/face protection P308 + P313 - IF exposed or concerned: Get medical advice/attention

P314 - Get medical advice/attention if you feel unwell

P273 - Avoid release to the environment

#### Hazards not otherwise classified (HNOC)

Causes mild skin irritation.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Inhalation

Ingestion

Component	CAS-No	Weight %	Trade Secret	Note
Glycol Ether Acrylate	Trade Secret	10 - 30	*	
Acrylated Monomer	Trade Secret	10 - 30	*	
Vinyl Functional Monomer	Trade Secret	5 - 10	*	
Acrylated Monomer	Trade Secret	5 - 10	*	
Triethanolamine	102-71-6	1 - 5	*	
Glycol Ether Acrylate	Trade Secret	1 - 5	*	
Acrylated Monomer	Trade Secret	< 1	*	
Additive	Trade Secret	< 1	*	

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

#### **Description of first aid measures**

**General Advice** Show this safety data sheet to the doctor in attendance.

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.

**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. Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or

stopped, administer artificial respiration. Get medical attention immediately.

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 effects, both acute and delayed

None under normal use conditions.

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

Notes to Physician Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Foam. Carbon dioxide (CO2). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances

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and the surrounding environment.

#### **Unsuitable Extinguishing Media**

No information available.

#### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. May emit toxic fumes under fire conditions. Hazardous polymerization may take place during a fire due to heat. Closed containers could violently rupture.

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers / tanks with water spray. Sealed containers may rupture when heated.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal Precautions Remove all sources of ignition. Ventilate the area. Avoid contact with eyes, skin and

clothing. Avoid breathing dust or vapor. Evacuate personnel to safe areas. Keep people

away from and upwind of spill/leak.

### Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways. Local authorities should be advised if significant spillages cannot be contained.

### Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use clean non-sparking tools to collect absorbed material.

### 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling**Use personal protective equipment as required. Do not eat, drink or smoke when using this

product. Ensure adequate ventilation.

#### Conditions for safe storage, including any incompatibilities

Storage Keep at temperatures between 18°-32°C (65°-90°F). Keep containers tightly closed in a dry,

cool and well-ventilated place. Keep container closed when not in use. Keep out of the reach of children. Protect from direct sunlight. Keep away from open flames, hot surfaces

and sources of ignition.

Incompatible Products Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### **Exposure limits**

Component	ACGIH TLV
Triethanolamine	TWA: 5 mg/m <sup>3</sup>
102-71-6	

Component	Ontario TWAEV
Triethanolamine	TWA: 0.5 ppm
102-71-6	TWA: 3.1 mg/m <sup>3</sup>

#### Appropriate engineering controls

**Engineering Measures** 

Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Users are advised to consider national Occupational Exposure Limits or other equivalent values. In case of insufficient ventilation, wear suitable respiratory equipment.

#### Individual protection measures, such as personal protective equipment

**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.

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, **Skin Protection** 

as appropriate, to prevent skin contact.

**Hand Protection** Chemical resistant protective gloves.

> Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding >480 minutes of permeation time): eq. nitrile rubber (0.4 mm), chloroprene

rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers. Taking into account the varying conditions, the practical usage of a

chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Due to different glove types, the manufacturer's directions for use should be observed.

Replace gloves immediately when torn or any change in appearance is noticed such as

dimension, color, flexibility.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved **Respiratory Protection** 

> respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of

the material.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Wash hands before

eating, drinking or smoking. Wash contaminated clothing before reuse. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection. Regular cleaning of

equipment, work area and clothing is recommended.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

**Physical State** Liquid **Appearance** Colored Liquid

Odor Sweet Mild Acrylic **Odor Threshold** No information available

Remarks • Method Property Values

No data available pН

**Melting Point / Freezing Point** No data available **Boiling Point / Boiling Range** > 149 °C / 300 °F

Flash Point > 94 °C / > 201 °F Pensky Martens Closed Cup (PMCC)

**Evaporation rate** No data available

Flammability Limit in Air No data available

Upper flammability limit Lower flammability limit No data available **Vapor Pressure** No data available

**Vapor Density** No data available

Specific Gravity 1.09

Water Solubility No data available Solubility in other solvents No data available

Partition coefficient: n-octanol/water No data available No data available **Autoignition Temperature** 

No data available **Decomposition temperature** Kinematic viscosity No data available

Dynamic viscosity

No data available

Explosive PropertiesNo data availableOxidizing PropertiesNo data available

**Other Information** 

Photochemically Reactive No Weight Per Gallon (lbs/gal) 9.13

VOC by weight % (less water)	VOC by volume %	VOC lbs/gal	VOC grams/liter
	(less water)	(less water)	(less water)
0-1	No information available	0-1	3.89

### 10. STABILITY AND REACTIVITY

#### Reactivity

No information available.

#### Chemical stability

Stable under normal conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing. Do not store for longer periods at temperatures above 93°C (200°F).

#### Conditions to avoid

Temperatures above 93 °C / 200 °F. Protect from direct sunlight. Keep away from open flames, hot surfaces and sources of ignition.

#### Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

### **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating gases and vapors. Carbon dioxide (CO2). Carbon monoxide.

### 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

InhalationSpecific test data for the substance or mixture is not available.Eye ContactSpecific test data for the substance or mixture is not available.Skin ContactSpecific test data for the substance or mixture is not available.IngestionSpecific test data for the substance or mixture is not available.

Component	Oral LD50
Glycol Ether Acrylate	= 4660 μL/kg (Rat)
Acrylated Monomer	= 5 g/kg ( Rat )
Triethanolamine	= 4190 mg/kg ( Rat )
102-71-6	

Component	Dermal LD50
Acrylated Monomer	= 3600 mg/kg ( Rabbit )
Triethanolamine	> 20000 mg/kg (Rabbit)
102-71-6	

### Information on toxicological effects

**Symptoms** Specific test data for the substance or mixture is not available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Specific test data for the substance or mixture is not available.

**Eye damage/irritation** Specific test data for the substance or mixture is not available. Causes serious eye irritation.

(based on components).

IrritationSpecific test data for the substance or mixture is not available.CorrosivitySpecific test data for the substance or mixture is not available.

**Sensitization** Specific test data for the substance or mixture is not available. May cause an allergic skin

reaction, (based on components).

Mutagenic EffectsSpecific test data for the substance or mixture is not available.Carcinogenic effectsSpecific test data for the substance or mixture is not available.

Reproductive Effects Specific test data for the substance or mixture is not available. Suspected of damaging

fertility. Suspected of damaging the unborn child. (based on components).

STOT - single exposure Specific test data for the substance or mixture is not available.

STOT - repeated exposure Specific test data for the substance or mixture is not available. May cause damage to

organs through prolonged or repeated exposure. (based on components).

**Chronic Toxicity** Specific test data for the substance or mixture is not available

Target Organ Effects Liver, Respiratory system.

**Aspiration hazard** Specific test data for the substance or mixture is not available.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

### Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 5,125.00 mg/kg **ATEmix (dermal)** 8,682.00 mg/kg mg/l

### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Specific test data for the substance or mixture is not available. Toxic to aquatic life with long lasting effects. (based on components).

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Component	Algae/aquatic plants
Triethanolamine	96h EC50 Desmodesmus subspicatus: = 169 mg/L
102-71-6	72h EC50 Desmodesmus subspicatus: = 216 mg/L

Component	Fish
Acrylated Monomer	96h LC50 Danio rerio: = 1.95 mg/L [static]
Vinyl Functional Monomer	96h LC50 Danio rerio: = 307 mg/L [static]
Triethanolamine 102-71-6	96h LC50 Pimephales promelas: > 1000 mg/L (static) 96h LC50 Lepomis macrochirus: 450 - 1000 mg/L (static) 96h LC50 Pimephales promelas: 10600 - 13000 mg/L (flow-through)
Acrylated Monomer	96h LC50 Danio rerio: = 5.74 mg/L [static]

#### Persistence and Degradability

No information available.

#### **Bioaccumulation**

No information available

Component	Partition coefficient
Triethanolamine	-2.53
102-71-6	

#### Other adverse effects

No information available

#### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Waste Disposal Methods Contain and dispose of waste according to local regulations.

Contaminated Packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal.

#### 14. TRANSPORT INFORMATION

**Note:** This information is not intended to convey all specific transportation requirements relating to

this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation information can be found in the specific regulations for your mode of transportation. It is the responsibility of the transporting organization to follow all applicable laws, regulations and

rules relating to the transportation of the material.

**DOT** Not regulated

Exception: In the US and Canada except when all or part of the transportation is by vessel, containers 119 gallons/ 450 Liters and less are not regulated [see 49CFR 171.4 (c)(1)] If in quantities of 5L or less (per inner packaging) for liquids or 5KG or less (per inner packaging) for solids these items may be shipped as not regulated [additional general packaging requirements must be met see 49CFR 173.24] [see 49CFR 171.4 (c)(2)]

ICAO / IATA / IMDG / IMO Not Regulated

Exception: If in quantities of 5L or less (per inner packaging) for liquids or 5KG or less (per inner packaging) for solids these items may be shipped as not regulated [additional general

packaging requirements must be met see ICAO/IATA special provision A197]

Exception: If in quantities of 5L or less (per inner packaging) for liquids or 5KG or less (per inner packaging) for solids these items may be shipped as not regulated [additional general

packaging requirements must be met see IMDG code 2.10.2.7]

## 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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Glycol Ether Acrylate	Trade Secret	10 - 30	1.0
Glycol Ether Acrylate	Trade Secret	1 - 5	1.0

The above glycol ether acrylate is considered a reactive chemical in ultraviolet curable inks. Once initiated by a high dose of ultraviolet light, this glycol ether acrylate rapidly polymerizes (i.e. hardens) and becomes part of the ink film. The polymerization process of UV curable inks is measured in milliseconds.

### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:.

Component	CAS-No	Weight %
Glycol Ether Acrylate	Trade Secret	10 - 30
Glycol Ether Acrylate	Trade Secret	1 - 5
Xylenes (o-, m-, p- isomers)	1330-20-7	< 0.5

### U.S. State Regulations

Component	Massachusetts	
	Right To Know	
Triethanolamine	Χ	
102-71-6		

•	Minnesota Right To Know
Acrylated Monomer	Х
Triethanolamine 102-71-6	X

	New Jersey Right To Know
Glycol Ether Acrylate	X
Triethanolamine 102-71-6	X
Glycol Ether Acrylate	X

Component	Pennsylvania Right To Know	
Glycol Ether Acrylate	X	
Triethanolamine 102-71-6	X	
Glycol Ether Acrylate	X	

<u>California Prop. 65</u>
This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects

### Canada

Component	NPRI - National Pollutant Release Inventory		
Triethanolamine	Part 4 Substance		
102-71-6			

16. OTHER INFORMATION						
HMIS: Health Flammability Reactivity Personal Protection						

### Key or legend to abbreviations and acronyms used in the safety data sheet

### Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL (Short Term Exposure Limit) STEL

Maximum limit value Ceiling

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### ACGIH: (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

Known - Known Carcinogen

Reasonably Anticipated to be a Human Carcinogen
OSHA: (Occupational Safety & Health Administration)

X - Present

Revision Date Feb-06-2020

#### Pursuant to NOM-018-STPS-2015

This information within is considered correct but is not exhaustive and will be used for guidance only, which is based on the current knowledge of the substance or mixture and is applicable to the appropriate safety precautions for the product.

### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 process, unless specified in the text.

**End of Safety Data Sheet**