

SAFETY DATA SHEET

Published Date Jan-03-2024 Revision Date Jan-03-2024 Revision Number 2.6

1. IDENTIFICATION

Product identifier Product code Product name

Product category

97HTEX Halftone Extender Base 9700 Series SV Screen Ink

Other means of identification Synonyms

Recommended use of the chemical and restrictions on useRecommended useIndustrial Printing Operations

None

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Details of the supplier of the safety data sheet UNITED STATES UNITED KINGDOM

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Emergency telephone number

USA: Chemtrec: +001-800-424-9300 Outside USA: Chemtrec: +001-703-527-3887 24 Hour Emergency Phone Number

2. HAZARDS IDENTIFICATION

Classification

| Acute toxicity - Inhalation (Vapors) | Category 3 - (H331) |
|---|---------------------|
| Acute toxicity - Inhalation (Dusts/Mists) | Category 3 - (H331) |
| Skin corrosion/irritation | Category 2 - (H315) |
| Serious eye damage/eye irritation | Category 2 - (H319) |

Label elements



Danger

Hazard statements

H315 - Causes skin irritation H319 - Causes serious eye irritation H331 - Toxic if inhaled

Precautionary Statements

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P280 - Wear protective gloves and eye/face protection
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P311 - Call a POISON CENTER or doctor
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

Hazards not otherwise classified (HNOC)

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

| Chemical name | CAS No. | Weight-% | Trade secret | Note |
|---|---------------|-----------|--------------|------|
| 2-Butoxyethanol | 111-76-2 | 30 - 60 | * | |
| Ethylene glycol monobutyl ether acetate | 112-07-2 | 10 - 30 | * | |
| Additive | Not Available | 0.1 - < 1 | * | |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

Description of first aid measures

| General Advice Eye Contact | Show this safety data sheet to the doctor in attendance. 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. |
| 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 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 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.

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, includi | ng any incompatibilities | |
| Storage | 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 Products | Strong acids. Strong bases. Strong oxidizing agents. Reducing agent. | |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits

| Chemical name | ACGIH TLV | |
|---|----------------------------|--|
| 2-Butoxyethanol | TWA: 20 ppm | |
| 111-76-2 | | |
| Ethylene glycol monobutyl ether acetate | TWA: 20 ppm | |
| 112-07-2 | | |
| | | |
| Chemical name | OSHA PEL | |
| 2-Butoxyethanol | TWA: 50 ppm | |
| 111-76-2 | TWA: 240 mg/m ³ | |
| | Skin | |
| Chemical name | OSHA PEL (vacated) | |
| 2-Butoxyethanol | TWA: 25 ppm | |
| 111-76-2 | TWA: 120 mg/m ³ | |
| | Skin | |
| | | |
| Chemical name | Ontario TWAEV | |

| Chemical name | Ontario TWAEV |
|---|------------------|
| 2-Butoxyethanol | TWA: 20 ppm |
| 111-76-2 | |
| Ethylene glycol monobutyl ether acetate | TWA: 20 ppm |
| 112-07-2 | |
| | |
| Chemical name | Mexico OEL (TWA) |

| 2-Butoxyethanol 111-76-2 | TWA/VLE-PPT: 20 ppm |
|---|---------------------|
| Ethylene glycol monobutyl ether acetate | TWA/VLE-PPT: 20 ppm |
| 112-07-2 | |

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, suc | ch 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. |
| Skin Protection | Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, 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): eg. 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. |
| 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. 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 Consideration | s 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 Physical state Odor | <u>chemical properties</u> Liquid Characteristic | Appearance Odor Threshold | Colored No information available |
|---|--|---|-------------------------------------|
| Property pH Melting Point / Freezing Point Boiling Point / Boiling Range Flash Point Evaporation rate Flammability Limit in Air Upper flammability limit Lower flammability limit Vapor Pressure | <u>Values</u> No information available > 149 °C / 300 °F 62 °C / 143 °F | Remarks• MethodNo data availableNo data availablePensky Martens ClosedNo data availableNo data available | d Cup (PMCC) |

| 8.27 | | |
|--|---|---|
| No | | |
| | | |
| No data available No data available | | |
| ater No information available | No data available No data available No data available No data available No data available No data available No data available | |
| 0.99 | No data available | |
| | ater No information available No data available No data available No | 0.99 No data available No information available No information available No data available |

VOC grams/liter (less water) (less water) (less water) (less water) No information available 694.32 70.04 5.79

10. STABILITY AND REACTIVITY

Reactivity

No information available.

<u>Chemical stability</u> Stable under normal conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

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

| Inhalation | Specific test data for the substance or mixture is not available. Toxic if inhaled. (based on components). |
|--------------|--|
| Eye Contact | Specific test data for the substance or mixture is not available. |
| Skin Contact | Specific test data for the substance or mixture is not available. |
| Ingestion | Specific test data for the substance or mixture is not available. |

| Chemical name | Oral LD50 |
|--|----------------------|
| 2-Butoxyethanol | = 470 mg/kg (Rat) |
| 111-76-2 | |
| Ethylene glycol monobutyl ether acetate 112-07-2 | = 2400 mg/kg (Rat) |
| | |
| Chemical name | Dermal LD50 |
| 2-Butoxyethanol | = 435 mg/kg (Rabbit) |

Ethylene glycol monobutyl ether acetate

112-07-2

| 111-76-2 | |
|---|---------------------------------------|
| Ethylene glycol monobutyl ether acetate | = 1500 mg/kg (Rabbit) |
| 112-07-2 | |
| | |
| | |
| Chemical name | Inhalation LC50 |
| Chemical name 2-Butoxyethanol | Inhalation LC50 = 450 ppm (Rat)4 h |

> 400 ppm (Rat) 4 h

| Symptoms related to the p | physical, chemical and toxicolo | gical characteristics |
|---------------------------|---------------------------------|-----------------------|

| Symptoms | Specific test data for the substa | nce 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 substa redness and swelling). (based o | nce or mixture is not available. Causes skin irritation (pain, n components). | |
| Eye damage/irritation | Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). | | |
| Irritation | Specific test data for the substance or mixture is not available. | | |
| Corrosivity | Specific test data for the substance or mixture is not available. | | |
| Sensitization | Specific test data for the substance or mixture is not available. | | |
| Mutagenic Effects | Specific test data for the substance or mixture is not available. | | |
| Carcinogenic effects | Specific test data for the substance or mixture is not available. | | |
| Reproductive Effects | Specific test data for the substance or mixture is not available. | | |
| 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. | | |
| Chronic Toxicity | Specific test data for the substance or mixture is not available | | |
| Aspiration hazard | Specific test data for the substance or mixture is not available. | | |
| Carcinogenicity | The table below indicates whether each agency has listed any ingredient as a carcinogen. | | |
| Chemical name | | ACGIH | |
| 2-Butoxyethanol 111-76-2 | | A3 | |
| Ethylene glycol monobutyl ether acetate 112-07-2 | | A3 | |

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) | 791.20 mg/kg | |
|-------------------------------|-----------------|--|
| ATEmix (dermal) | 15,000.00 mg/kg | |
| ATEmix (inhalation-gas) | 99,999.00 | |
| ATEmix (inhalation-dust/mist) | 0.799 mg/l | |
| ATEmix (inhalation-vapor) | 4.83 mg/l | |

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

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

Algae/aquatic plants

| 72h EC50 Desmodesmus subspicatus: > 500 mg/L |
|--|
| Fish |
| 96h LC50 Lepomis macrochirus: = 1490 mg/L (static) |
| 96h LC50 Lepomis macrochirus: = 2950 mg/L |
| 96h LC50 Oncorhynchus mykiss: 20 - 40 mg/L |
| |
| Crustacea |
| 48h EC50 Daphnia magna: > 1000 mg/L |
| |
| 48h EC50 Daphnia magna: = 37 mg/L |
| |

Persistence and Degradability

No information available.

Bioaccumulation

| Chemical name | Partition coefficient |
|---|-----------------------|
| | 0.81 |
| 111-76-2 | |
| Ethylene glycol monobutyl ether acetate | 1.51 |
| 112-07-2 | |

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 UN/ID no Proper Shipping Name Transport hazard class(es) Packing Group | UN2810 Toxic Liquid, Organic, N.O.S. (2-Butoxyethanol) 6.1 III |
| ICAO / IATA / IMDG / IMO UN/ID no Proper Shipping Name Transport hazard class(es) Packing Group | UN2810 Toxic Liquid, Organic, N.O.S. (2-Butoxyethanol) 6.1 III |

15. REGULATORY INFORMATION

International Inventories

All substances are listed as ACTIVE 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.

| Chemical name | CAS No. | Weight-% | SARA 313 - Threshold Values % |
|---|----------|----------|----------------------------------|
| 2-Butoxyethanol | 111-76-2 | 30 - 60 | 1.0 |
| Ethylene glycol monobutyl ether acetate | 112-07-2 | 10 - 30 | 1.0 |

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:.

| 10 - 30 |
|---------|
| |

US State Regulations

| Chemical name | Massachusetts |
|-----------------|---------------|
| 2-Butoxyethanol | X |
| 111-76-2 | |
| | |
| Chemical name | Minnesota |
| | Right To Know |

| | Right To Know |
|-----------------|---------------|
| 2-Butoxyethanol | X |
| 111-76-2 | |
| | |

| Chemical name | New Jersey |
|---|------------|
| 2-Butoxyethanol | X |
| 111-76-2 | |
| Ethylene glycol monobutyl ether acetate | X |
| 112-07-2 | |

| Chemical name | Pennsylvania |
|---|--------------|
| 2-Butoxyethanol | X |
| 111-76-2 | |
| Ethylene glycol monobutyl ether acetate | X |
| 112-07-2 | |

California Proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects

Canada

| Chemical name | NPRI - National Pollutant Release Inventory |
|---|---|
| 2-Butoxyethanol | Part 1, Group A Substance |
| 111-76-2 | Part 5 Substance - Volatile Organic Compounds with Additional |
| | Reporting Requirements |
| | Part 4 Substance - Criteria Air Contaminants |
| Ethylene glycol monobutyl ether acetate | Part 5 Substance - Volatile Organic Compounds with Additional |
| 112-07-2 | Reporting Requirements |
| | Part 4 Substance - Criteria Air Contaminants |

16. OTHER INFORMATION

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 | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value |

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 Group 3 - Not Classifiable as to Carcinogenicity in Humans NTP: (National Toxicity Program) Known - Known Carcinogen Reasonably Anticipated to be a Human Carcinogen OSHA: (Occupational Safety & Health Administration) X - Present

Revision Date Jan-03-2024

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