

Product name : Heatless ink ST-370 Invisible Ink
SDS Number : 370R

Date Prepared : OCT.16.2018
Revision Date : SEP.9.2021

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : Heatless ink ST-370 Invisible Ink
Recommended use : Ink for ink jet printer

Company : Sneed Coding Solutions
22315 Gosling Rd,
Spring, TX 77389
:
Telephone number : 833-926-3464
:
E-mail : support@sneedcoding.com

2. HAZARDS IDENTIFICATION

GHS Classification of the substance or mixture

Flammable liquid : Category 2
Serious eye damage/eye irritation : Category 1
Specific target organ toxicity - Single exposure : Category 3 (Narcotic effect)

Label Elements

Hazard pictograms : 

Signal word : Danger
Hazard statements : Highly flammable liquid and vapor.
Causes serious eye damage.
May cause drowsiness or dizziness.

Precautionary statements

Prevention : Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/protective clothing/eye protection/face protection.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.

Response : IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
Rinse skin with water/shower.
In case of fire: Use an appropriate extinguishing agent for extinction.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.

Storage : Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Store locked up.

Disposal : Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards : None known

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Mixture : Mixture

Ingredients

Components	CAS No.	Concentration (wt%)
Ethanol	64-17-5	> 77
1-Methoxy-2-Propanol	107-98-2	≤ 10
Cyclohexanone	108-94-1	≤ 4
Acetone	67-64-1	< 5
Red Dye	Proprietary	< 1.5

4. FIRST-AID MEASURES

Description of first aid measures

- Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Get medical advice/attention if you feel unwell.
- Skin contact : Wash thoroughly with soap and plenty of water while removing all contaminated clothes.
If skin irritation or rash occurs: Get medical advice/attention.
- Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to remove. Continue to rinse for at least 15 minutes.
Get medical attention immediately.
- Ingestion : Wash mouth with water and seek medical advice immediately.
Do not induce vomiting.

Most important symptoms and effects, both acute and delayed
: No further relevant information available.

Recommendations for immediate medical care and special treatment needed

Notes to physician : Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable extinguishing media : Carbon dioxide (CO₂), Dry chemical, Alcohol-resistant foam, Water spray.
- Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the substance or mixture

- : Carbon oxides, nitrogen oxides will form in fire.

Special protective equipment for firefighters

- : Wear suitable protective suit and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : Wear appropriate personal protective equipment as specified in section 8.
Keep unnecessary peoples away. Isolate area. Ensure adequate ventilation.

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Environmental precautions : Do not release into soil, sewers, river, or the public water courses.

Methods and materials for containment and cleaning up

: In the case of a cartridge: Not applicable.

At the time of the leakage of contents: Absorb or cover with dry earth, sand or other non-combustible material and transfer to sealable containers. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7. HANDLING AND STORAGE

Handling

Handling

: Put on appropriate personal protective equipment (see Section 8).

Prohibition of dropping and throwing.

Avoid contact with skin, eyes and clothing.

Do not breathe vapors. Use only in a well-ventilated area.

Use a ventilation, local exhaust if vapor or aerosol will be generated.

Keep away from fire, sparks and heated surfaces.

Take precautionary measures against electrostatic discharges.

Hygiene measures

: When using do not eat or drink. Wash hands thoroughly after handling.

Storage

: Do not store ink in high or freezing temperature.

Keep away from heat and direct sunlight.

Do not store ink with acids, oxidizing agents or explosives.

Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Notation	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Source
EU	Cyclohexanone	108-94-1		IOELV	10	40.8	20	81.6	2000/39/EC
MT	Cyclohexanone	108-94-1		OELV	10	40.8	20	81.6	L.N. 227
EU	Acetone	67-64-1			500	1210			2000/39/EC
EU	1-methoxy-2-propanol	107-98-2		IOELV	100	375	150	568	2000/39/EC
MT	1-methoxy-2-propanol	107-98-2		OELV	100	375	150	568	CAP. 424
	Ethanol	64-17-5	Data are not available						
Relevant DNELs/DMELs/PNECs and other threshold levels									
• human health values									
	End point	Threshold level	Protection goal, route of exposure		Used in		Exposure time		

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Red liquid

Odor

Characteristic

Odor threshold

Not available.

pH

Not available.

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Melting point/freezing point;	Not available.	Auto-ignition temperature	Not available.
Initial boiling point and boiling range	>70°C	Decomposition temperature	Not available.
Flash point	15°C (closed-cup)	Viscosity (cPs)	Not available.
Evaporation rate	Not available.		
Flammability (solid, gas)	Not applicable.		
Upper/lower flammability or explosive limits			
Flammability limit – lower (%)	Not available.		
Flammability limit - upper (%)	Not available.		
Explosive limit – lower (%)	Not available.		
Explosive limit – upper (%)	Not available.		
Vapor pressure	Not available.		
Vapor density	Not available.		
Relative density	Not available.		
Solubility(ies)	Soluble in ethanol.		
Partition coefficient: n-octanol/water	Not available.		

10. STABILITY AND REACTIVITY

Reactivity

:

No hazardous reactions with proper storage and handling.

Chemical stability

:

The product is stable under normal conditions.

Possibility of hazardous reactions

:

No hazardous reactions with proper storage and handling.

Conditions to avoid

:

High temperature, heat, sparks, flames and other sources of ignition. Oxidizing condition.

Incompatible materials

:

No information available.

Hazardous decomposition products

:

Carbon oxides, nitrogen oxides will form in fire.

11. TOXICOLOGICAL INFORMATION

Acute toxicity value

Components	Species	Test results	Respiratory sensitization	Not available.
Ethanol (CAS 64-17-5)			Skin sensitization	Not available.
			Germ cell mutagenicity	Not available.
			Carcinogenicity	Not available.
			Specific target organ toxicity - single exposure	Not available.
Acute			1-methoxy-2-propanol (CAS 107-98-2)	May cause drowsiness or dizziness. Target Organs: Central nervous system
			Acetone (CAS 67-64-1)	May cause drowsiness or dizziness. - Narcotic effects
			Specific target organ toxicity - repeated exposure	Not available.
			Aspiration hazard	Not available.
Inhalation (LC50)	Mouse Rat	39 mg/l, 4 Hours 20000 mg/l, 10 Hours		
Oral (LD50)	Dog Guinea pig Mouse Rat	5.5 g/kg 5.6 g/kg Mouse 3450 mg/kg Rat 7060 mg/kg 6.2 g/kg		
Cyclohexanone (CAS 108-94-1)				
Acute				
Inhalation (LC50)	Rat	> 6.2 mg/l, 4 Hours		
Dermal (LD50)	rabbit	3,160 mg/kg		
Oral (LD50)	Rat	1,534 mg/kg		
Acetone (CAS 67-64-1)				
Acute				
Inhalation (LC50)	Rat	50.100 mg/m³		
Oral (LD50)	Rat	5.800 mg/kg		
Dermal (LD50)	Guinea pig	7.426 mg/kg		
1-methoxy-2-propanol (CAS 107-98-2)				
Acute				
Inhalation (LC50)	Rat	10,000 mg/l, 5 Hour		
Oral (LD50)	Mouse	11,700mg/kg		
Dermal (LD50)	Rabbit	13,000mg/kg		
Skin corrosion/irritation	Not available.			
Serious eye damage/eye irritation	Eye Contact: May cause eye irritation.			

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12. ECOLOGICAL INFORMATION

Aquatic toxicity

Components	Species	Test Results
Ethanol (CAS 64-17-5)		
Aquatic		
Crustacea	EC50 Water flea (Daphnia magna)	7.7 - 11.2 mg/l, 48 hours
Fish	LC50 Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours
Cyclohexanone (CAS 108-94-1)		
Daphnia and other aquatic invertebrates	LC50 Daphnia magna (Water flea)	820 mg/l - 24 h
Acetone (CAS 67-64-1)		
Fish	LC50 Oncorhynchus mykiss (rainbow trout)	5,540 mg/l - 96 h
Daphnia and other aquatic invertebrates	LC50 Daphnia magna (Water flea)	8,800 mg/l - 48 h
1-methoxy-2-propanol (CAS 107-98-2)		
Fish	LC50 Oncorhynchus mykiss (rainbow trout)	>1000 mg/l - 96 h

13. DISPOSAL CONSIDERATIONS

Appropriate disposal methods : Dispose of waste material in accordance with local, state and federal pollution regulations.

Contaminated packaging : When disposing of an empty container, dispose after removing contents materials completely. Dispose of this material and its container according to your country law.

14. TRANSPORT INFORMATION

Class : Class 3
UN number : 1210
Packing group : II
UN proper shipping name : Printing Ink

Sea transport

IMDG-Code:

Class : Class 3
UN number : 1210
Packing group : II
UN proper shipping name : Printing Ink
Marine pollutant : No

Air transport

ICAO-TI/IATA-DGR :

Class : Class 3
UN number : 1210
Packing group : II
UN proper shipping name : Printing Ink

Land transport

DOT :

Class : Class 3
UN number : 1210
Packing group : II
UN proper shipping name : Printing Ink

15. REGULATORY INFORMATION

Follow all regulations in your country.

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Toxic Substances Control Act (TSCA)

TSCA Status : All of the components of this product are listed on the TSCA Inventory.

16. OTHER INFORMATION

Literature Reference : SDS of raw material manufacturer
NITE: Chemical Risk Information Platform
3E: Ariel Research Tool

Revision date :

Further information

The information contained herein is based on the current knowledge. This Safety Data Sheet is intended to describe our products in correctness of safety requirements. It should not therefore be construed as guaranteeing specific properties. The data applies to only usual handling.