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2.6

1. IDENTIFICATION

Product identifier

Product code RE195
Product name Thinner / Screen Wash
Product category Ink Product

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Industrial Printing Operations

Details of the supplier of the safety data sheet

UNITED STATES	UNITED KINGDOM
Nazdar Company	Nazdar Limited
8501 Hedge Lane Terrace	Barton Road
Shawnee, KS 66227	Heaton Mersey
Tel: +001-913-422-1888	Stockport, England SK4 3EG
Tel: +001-800-677-4657	Tel: +44 161 442 2111
Fax: +001-913-422-2294	
www.nazdar.com	

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 (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 1 - (H318)
Carcinogenicity	Category 2 - (H351)
Aspiration hazard	Category 1 - (H304)
Chronic aquatic toxicity	Category 2 - (H411)
Flammable liquids	Category 3 - (H226)

Label elements



Signal word
Danger

Hazard statements

H226 - Flammable liquid and vapor
H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation
 H318 - Causes serious eye damage
 H332 - Harmful if inhaled
 H351 - Suspected of causing cancer
 H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
 P273 - Avoid release to the environment
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P310 - Immediately call a POISON CENTER or doctor
 P331 - Do NOT induce vomiting
 P403 + P235 - Store in a well-ventilated place. Keep cool

Hazards not otherwise classified (HNOC)

Toxic to aquatic life.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name	CAS No	Weight-%	Trade secret	Note
Cyclohexanone	108-94-1	30 - 60	*	
Solvent naphtha, petroleum, heavy aromatic	64742-94-5	30 - 60	*	
Naphthalene (constituent)	91-20-3	1 - 5	*	1
1,2,4-Trimethylbenzene (constituent)	95-63-6	0.1 - < 1	*	1

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

Note

1. Hazardous Constituent contained in Complex Substance(s) required for disclosure

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. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately. Remove person to fresh air and keep comfortable for breathing.

Inhalation**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

Water spray. Carbon dioxide (CO₂). Foam. Dry chemical. 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. Sealed containers may rupture when heated. Cool containers / tanks with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures**Personal Precautions**

Evacuate personnel to safe areas. Remove all sources of ignition. Keep people away from and upwind of spill/leak. Avoid contact with eyes, skin and clothing. Ventilate the area. Avoid breathing dust or vapor.

Environmental precautions

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

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**

Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Use personal protective equipment as required.

Conditions for safe storage, including any incompatibilities**Storage**

Keep away from open flames, hot surfaces and sources of ignition. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep container closed when not in use.

Incompatible Products

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters**Exposure limits**

Chemical name	ACGIH TLV
Cyclohexanone 108-94-1	TWA: 20 ppm STEL: 50 ppm Skin
Naphthalene (constituent) 91-20-3	TWA: 10 ppm Skin
1,2,4-Trimethylbenzene (constituent) 95-63-6	TWA: 10 ppm
Chemical name	OSHA PEL
Cyclohexanone 108-94-1	TWA: 50 ppm TWA: 200 mg/m ³

Naphthalene (constituent) 91-20-3	TWA: 10 ppm TWA: 50 mg/m ³
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Chemical name	OSHA PEL (vacated)
Cyclohexanone 108-94-1	TWA: 25 ppm TWA: 100 mg/m ³ Skin
Naphthalene (constituent) 91-20-3	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 15 ppm STEL: 75 mg/m ³

Chemical name	Ontario TWA EV
Cyclohexanone 108-94-1	TWA: 20 ppm STEL: 50 ppm Skin
Naphthalene (constituent) 91-20-3	TWA: 10 ppm Skin

Chemical name	Mexico OEL (TWA)
Cyclohexanone 108-94-1	TWA/VLE-PPT: 20 ppm STEL/PPT-CT: 50 ppm
Naphthalene (constituent) 91-20-3	TWA/VLE-PPT: 10 ppm STEL/PPT-CT: 15 ppm

Appropriate engineering controls

Engineering Measures

In case of insufficient ventilation, wear suitable respiratory equipment. 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.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Wear safety glasses with side shields (or goggles). Ensure that eyewash stations and safety showers are close to the workstation location. If splashes are likely to occur: Wear suitable face shield.

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 Considerations

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before eating, drinking or smoking. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	Appearance	Water-white
Odor	Characteristic	Odor Threshold	No information available

Property	Values	Remarks • Method
pH		No data available
Melting Point / Freezing Point	No information available	No data available
Boiling Point / Boiling Range	> 149 °C / 300 °F	
Flash Point	44 °C / 111 °F	Tag closed cup
Evaporation rate		No data available
Flammability Limit in Air		
Upper flammability limit		No data available
Lower flammability limit		No data available
Vapor Pressure		No data available
Vapor Density		No data available
Specific Gravity	0.92	
Water Solubility		No data available
Solubility in other solvents		No data available
Partition coefficient: n-octanol/water		No data available
Autoignition Temperature	No information available	No data available
Hyphen		No data available
Kinematic viscosity		No data available
Dynamic viscosity		No data available
Explosive Properties	No data available	
Oxidizing Properties	No data available	

Other information

Photochemically Reactive	Yes
Weight Per Gallon (lbs/gal)	7.69

VOC by weight % (less water)	VOC by volume % (less water)	VOC lbs/gal (less water)	VOC grams/liter (less water)
100	100	7.7	922.24

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

Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials

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

Hazardous decomposition products

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

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation

Specific test data for the substance or mixture is not available. Harmful 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
Cyclohexanone 108-94-1	= 1544 mg/kg (Rat)
Solvent naphtha, petroleum, heavy aromatic 64742-94-5	> 5000 mg/kg (Rat)
Naphthalene (constituent) 91-20-3	= 1110 mg/kg (Rat)
1,2,4-Trimethylbenzene (constituent) 95-63-6	= 3280 mg/kg (Rat)

Chemical name	Dermal LD50
Cyclohexanone 108-94-1	= 947 mg/kg (Rabbit)
Solvent naphtha, petroleum, heavy aromatic 64742-94-5	> 2000 mg/kg (Rabbit)
Naphthalene (constituent) 91-20-3	= 1120 mg/kg (Rabbit)
1,2,4-Trimethylbenzene (constituent) 95-63-6	> 3160 mg/kg (Rabbit)

Chemical name	Inhalation LC50
Cyclohexanone 108-94-1	> 6.2 mg/L (Rat) 4 h
Solvent naphtha, petroleum, heavy aromatic 64742-94-5	> 590 mg/m ³ (Rat) 4 h
Naphthalene (constituent) 91-20-3	> 0.4 mg/L (Rat) 4 h
1,2,4-Trimethylbenzene (constituent) 95-63-6	= 18 g/m ³ (Rat) 4 h

Symptoms related to the physical, chemical and toxicological characteristics**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. Causes skin irritation (pain, redness and swelling). (based on components).

Eye damage/irritation

Specific test data for the substance or mixture is not available. Causes serious eye damage. (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. Suspected of causing cancer. (based on components).

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. May be fatal if swallowed and enters airways. (based on components).

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH
Cyclohexanone 108-94-1	A3
Naphthalene (constituent) 91-20-3	A3

Chemical name	IARC
Naphthalene (constituent) 91-20-3	Group 2B
Chemical name	NTP
Naphthalene (constituent) 91-20-3	Reasonably Anticipated
Chemical name	OSHA
Naphthalene (constituent) 91-20-3	X

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)	2,778.80 mg/kg
ATEmix (dermal)	2,200.00 mg/kg
ATEmix (inhalation-dust/mist)	3.00 mg/l
ATEmix (inhalation-vapor)	22.00 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

Chemical name	Fish
Solvent naphtha, petroleum, heavy aromatic 64742-94-5	96h LC50 Pimephales promelas: = 19 mg/L (static) 96h LC50 Oncorhynchus mykiss: = 2.34 mg/L 96h LC50 Lepomis macrochirus: = 1740 mg/L (static) 96h LC50 Pimephales promelas: = 45 mg/L (flow-through) 96h LC50 Pimephales promelas: = 41 mg/L
Cyclohexanone 108-94-1	96h LC50 Pimephales promelas: 481 - 578 mg/L (flow-through) 96h LC50 Pimephales promelas: = 8.9 mg/L
Naphthalene (constituent) 91-20-3	96h LC50 Oncorhynchus mykiss: = 1.6 mg/L (flow-through) 96h LC50 Oncorhynchus mykiss: 0.91 - 2.82 mg/L (static) 96h LC50 Pimephales promelas: = 1.99 mg/L (static) 96h LC50 Lepomis macrochirus: = 31.0265 mg/L (static) 96h LC50 Pimephales promelas: 5.74 - 6.44 mg/L (flow-through)
1,2,4-Trimethylbenzene (constituent) 95-63-6	96h LC50 Pimephales promelas: 7.19 - 8.28 mg/L (flow-through)

Chemical name	Crustacea
Solvent naphtha, petroleum, heavy aromatic 64742-94-5	48h EC50 Daphnia magna: = 0.95 mg/L
Naphthalene (constituent) 91-20-3	48h EC50 Daphnia magna: 1.09 - 3.4 mg/L Static 48h EC50 Daphnia magna: = 1.96 mg/L Flow through 48h LC50 Daphnia magna: = 2.16 mg/L
1,2,4-Trimethylbenzene (constituent) 95-63-6	48h EC50 Daphnia magna: = 6.14 mg/L

Persistence and Degradability

No information available.

Bioaccumulation

Chemical name	Partition coefficient
Cyclohexanone 108-94-1	0.86
Solvent naphtha, petroleum, heavy aromatic 64742-94-5	2.9 - 6.1
Naphthalene (constituent) 91-20-3	3.6
1,2,4-Trimethylbenzene (constituent) 95-63-6	3.63

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

In the U.S. and Canada, this material may be reclassified as a combustible liquid and is not regulated, via surface transportation, in containers less than 119 gallons or 450 liters [per 49 CFR 173.150 (f)] [per Transportation of Dangerous Goods Regulations/Clear Language Part 1.33].

UN/ID no

UN1210

Proper Shipping Name

Printing Ink Related Material

Transport hazard class(es)

3

Packing Group

III

ICAO / IATA / IMDG / IMO

UN/ID no

UN1210

Proper Shipping Name

Printing Ink Related Material

Transport hazard class(es)

3

Packing Group

III

15. REGULATORY INFORMATION

International Inventories

For further information, please contact:. All components are listed on the TSCA Inventory. 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 %
Naphthalene (constituent)	91-20-3	1 - 5	0.1

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:

Chemical name	CAS No	Weight-%
Naphthalene (constituent)	91-20-3	1 - 5

US State Regulations

Chemical name	Massachusetts
Cyclohexanone 108-94-1	X
Naphthalene (constituent) 91-20-3	X
1,2,4-Trimethylbenzene (constituent) 95-63-6	X

Chemical name	Minnesota Right To Know
Cyclohexanone 108-94-1	X
Naphthalene (constituent) 91-20-3	X
1,2,4-Trimethylbenzene (constituent) 95-63-6	X

Chemical name	New Jersey
Cyclohexanone 108-94-1	X
Naphthalene (constituent) 91-20-3	X
1,2,4-Trimethylbenzene (constituent) 95-63-6	X

Chemical name	Pennsylvania
Cyclohexanone 108-94-1	X
Naphthalene (constituent) 91-20-3	X
1,2,4-Trimethylbenzene (constituent) 95-63-6	X

California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm

Chemical name	California Proposition 65
Naphthalene (constituent)	Carcinogen

Canada

Chemical name	NPRI - National Pollutant Release Inventory
Cyclohexanone 108-94-1	Part 4 Substance (as set out in Section 65 of the List of Toxic Substances in Schedule 1 of the Canadian Environmental Protection Act, 1999)
Solvent naphtha, petroleum, heavy aromatic 64742-94-5	Part 5, Other Groups and Mixtures Part 4 Substance (as set out in Section 65 of the List of Toxic Substances in Schedule 1 of the Canadian Environmental Protection Act, 1999)
Naphthalene (constituent) 91-20-3	Part 1, Group A Substance Part 4 Substance (as set out in Section 65 of the List of Toxic Substances in Schedule 1 of the Canadian Environmental Protection Act, 1999)
1,2,4-Trimethylbenzene (constituent) 95-63-6	Part 1, Group A Substance; Part 5, Individual Substances Part 4 Substance (as set out in Section 65 of the List of Toxic Substances in Schedule 1 of the Canadian Environmental Protection Act, 1999)

16. OTHER INFORMATION

HMIS	Health hazards	Flammability	Reactivity	Personal Protection
	2 *	2	0	X

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-16-2023

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