

SAFETY DATA SHEET**1. Identification**

Product Name: ID-360 Ink & Stain Remover
Product Code: 195-8141
SDS Date: 5/15/2023
Use: Industrial

Lawson Screen & Digital Products, Inc.
5110 Pernose St., St. Louis, MO 63115

General Information: 314-382-9300
CHEMTREC: 800-424-9300

2. Hazard(s) identification**GHSClassification**

Flammable liquids (Category 3), H226
Skin irritation (Category 2), H315
Serious eye damage (Category 1)
Skin sensitization (Category 1), H317
Aspiration hazard (Category 1), H304
Reproductive toxicity (Category 1B)
Specific target organ toxicity - single exposure (Category 3), Respiratory system

Pictogram

Signalword Danger

HazardStatement

Flammable liquid and vapor
Causes skin irritation.
Causes serious eye damage.
May cause an allergic skin reaction
May be fatal if swallowed and enters airways
May damage fertility or the unborn child
May cause respiratory irritation

Precautionary

Avoid breathing mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Do not handle until all safety precautions have been read and understood. Ground/bond container and receiving equipment. Keep away from heat/sparks/open flames/hot surfaces-no smoking. Keep container tightly closed. Obtain special instructions before use. Take precautionary measure against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Call a poison center/doctor if you feel unwell. If exposed

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or concerned: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If inhaled: Remove person to fresh air and keep comfortable for breathing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water shower. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. In case of fire: Use water fog or fine spray, dry chemical fire extinguishers, carbon dioxide fire extinguishers and foam to extinguish. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local /regional/ national/international regulations.

Hazards not otherwise classified: Not available

3. Composition/information on ingredients

Name	CAS	Concentration
N-Methyl-2-Pyrrolidone	872-50-4	1-30
D-Limonene	5989-27-5	1-30
Dimethyl Succinate	106-65-0	1-30
Dimethyl Adipate	627-93-0	1-30
Dimethyl Glutarate	1119-40-0	1-30
Benzyl Alcohol	100-51-6	1-30
Polyoxyethylene mono(octylphenyl)ether	9002-93-1	1-30

4. First-aid measures

General Advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If Inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In Case of Skin Contact	Wash off with soap and plenty of water. Consult a physician.
In Case of Eye Contact	Flush eyes with water as a precaution.
If Swallowed	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indications of any immediate medical attention and special treatment needed

No data available

5. Fire-fighting measures

Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special Hazards	Carbon oxides
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.

Further Information

Use water spray to cool unopened containers.

6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

7. Handling and storage

Safe Handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Safe Storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. Exposure controls/personal protection

Name		CAS	
N-Methyl-2-Pyrrolidone		872-50-4	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
No data available	No data available	No data available	No data available
D-Limonene		5989-27-5	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Not Available	Not Available	20 ppm	Not Available
Dimethyl Succinate		106-65-0	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Not Available	Not Available	Not Available	Not Available
Dimethyl Adipate		627-93-0	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Not Available	Not Available	Not Available	Not Available

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Dimethyl Glutarate		1119-40-0	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Not Available	Not Available	Not Available	Not Available
Benzyl Alcohol		100-51-6	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Not Available	Not Available	Not Available	Not Available
Polyoxyethylene mono(octylphenyl)ether		9002-93-1	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Not Available	Not Available	Not Available	Not Available

Engineering Control	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Eye/Face Protection	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin Protection	Handle with nitrile rubber gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Body Protection	When skin contact is possible, protective clothing including apron, sleeves, boots, head and face protection should be worn according to the concentration and amount of substance at the specific workplace.
Respiratory Protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of Environmental Exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. Physical and chemical properties

Appearance	D-Limonene	Liquid
Odor	D-Limonene	characteristic
Odor Threshold	D-Limonene	No data available
pH	D-Limonene	No data available
Melting/Freezing Point	D-Limonene	Melting point/range: -74.3 °C (-101.7 °F)
Initial Boiling Point/Range	D-Limonene	175 - 176 °C (347 - 349 °F)

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Flash Point	D-Limonene	50 °C (122 °F)
Evaporation Rate	D-Limonene	No data available
Flammability	D-Limonene	No data available
Upper Explosion Limit	D-Limonene	6.1%
Lower Explosion Limit	D-Limonene	0.7%
Vapor Pressure	D-Limonene	50 hPa (38 mmHg) at ca.50 °C (122 °F)
Vapor Density	D-Limonene	4.70 - (Air = 1.0)
Relative Density	D-Limonene	0.84 g/cm ³ at 25 °C (77 °F)
Water Solubility	D-Limonene	immiscible
Partition Coefficient	D-Limonene	log Pow: 4.2
Auto Ignition Temperature	D-Limonene	245 °C (473 °F) at 995 hPa (746 mmHg)
Decomposition Temperature	D-Limonene	No data available
Viscosity	D-Limonene	No data available

10. Stability and reactivity

Reactivity	No data available
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents
Hazardous Decomposition Products	No data available

11. Toxicological information

Name	CAS
N-Methyl-2-Pyrrolidone	872-50-4
LD50 Oral - Rat - 3,914 mg/kg	
LDLO Inhalation - Rat - 4 h - > 5100 ppm	
LD50 Dermal - Rabbit - 8,000 mg/kg	
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	Result: Eye irritation
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available

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Carcinogenicity Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, ACGIH, or OSHA

Reproductive Damage to fetus possible

Additional information Inhalation - May cause respiratory irritation.

Name	CAS
D-Limonene	5989-27-5
LD50 Oral - Rat - 4,400 mg/kg	
Inhalation: No data available	
LD50 Dermal - Rabbit - > 5,000 mg/kg	
Skin corrosion/irritation No data available	
Serious eye damage/eye irritation Result: No eye irritation	
Respiratory or skin sensitization Result: May cause sensitisation by skin contact.	
Germ cell mutagenicity Result: negative	
Carcinogenicity IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (D-Limonene)	
Reproductive No data available	
Additional information no data available	

Name	CAS
Dimethyl Succinate	106-65-0
LD50 Oral - Rat - female - 6,892 mg/kg	
LD50 Inhalation - Rat - male and female - > 2,000 mg/l	
LD50 Dermal - Rabbit - > 5,000 mg/kg	
Skin corrosion/irritation Result: No skin irritation	
Serious eye damage/eye irritation Result: Mild eye irritation	
Respiratory or skin sensitization Result: Did not cause sensitisation on laboratory animals.	
Germ cell mutagenicity Result: negative	
Carcinogenicity Not identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, or OSHA	
Reproductive No data available	
Additional information No data available	

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Name	CAS
Dimethyl Adipate	627-93-0
LD50 Oral - Rat - male and female - > 5,000 mg/kg	
Inhalation: No data available	
LD50 Dermal - Rabbit - male and female - > 1,000 mg/kg	
Skin corrosion/irritation Result: No skin irritation - 4 h	
Serious eye damage/eye irritation Result: No eye irritation	
Respiratory or skin sensitization No data available	
Germ cell mutagenicity Result: negative	
Carcinogenicity Not identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, or OSHA	
Reproductive Rat: Effects on Fertility: Post-implantation mortality, Specific Developmental Abnormalities: Musculoskeletal system.	
Additional information No data available	

Name	CAS
Dimethyl Glutarate	1119-40-0
Oral: no data available	
Inhalation: no data available	
Dermal: no data available	
Skin corrosion/irritation no data available	
Serious eye damage/eye irritation no data available	
Respiratory or skin sensitization no data available	
Germ cell mutagenicity no data available	
Carcinogenicity Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA	
Reproductive no data available	
Additional information no data available	

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Name	CAS
Benzyl Alcohol	100-51-6
LD50 Oral - Rat - 1,230 mg/kg, LD50 Oral - Rat - male - 1,620 mg/kg	
Inhalation: No data available	
Dermal: No data available	
Skin corrosion/irritation Result: No skin irritation - 24 h	
Serious eye damage/eye irritation Result: Eye irritation - 24 h	
Respiratory or skin sensitization No data available	
Germ cell mutagenicity No data available	
Carcinogenicity Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA	
Reproductive No data available	
Additional information Central nervous system depression	

Name	CAS
Polyoxyethylene mono(octylphenyl)ether	9002-93-1
LD50 Oral - Rat - 1,800 mg/kg	
Inhalation: No data available	
LD50 Dermal - Rabbit - 8,000 mg/kg	
Skin corrosion/irritation No data available	
Serious eye damage/eye irritation Result: Moderate eye irritation - 24 h	
Respiratory or skin sensitization No data available	
Germ cell mutagenicity No data available	
Carcinogenicity Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA	
Reproductive No data available	
Additional information No data available	

12. Ecological information

Name	CAS	Toxicity
N-Methyl-2-Pyrrolidone	872-50-4	LC50 - other fish - 4,000 mg/l - 96 h LC50 - Leuciscus idus (Golden orfe) - > 500 mg/l - 96 h EC50 - Daphnia magna (Water flea) - > 1,000 mg/l - 24 h Toxicity to bacteria LC50 - Bacteria - > 9,000 mg/l

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D-Limonene	5989-27-5	flow-through test LC50 - Pimephales promelas (fathead minnow) - 0.72 mg/l - 96 h Immobilization EC50 - Daphnia magna (Water flea) - 0.36 mg/l - 48 h Toxicity to bacteria EC50 - Sludge Treatment - 3.94 mg/l
Dimethyl Succinate	106-65-0	semi-static test LC50 - Danio rerio (zebra fish) - 50 - 100 mg/l - 96 h static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h Toxicity to algae static test EC50 - Pseudokirchneriella subcapitata - > 100 mg/l - 72 h Toxicity to bacteria Growth inhibition EC50 - Sludge Treatment - > 1,000 mg/l - 3 h
Dimethyl Adipate	627-93-0	static test EC50 - Daphnia magna (Water flea) - 72 mg/l - 48 h Toxicity to algae static test - Pseudokirchneriella subcapitata - > 100 mg/l - 72 h
Dimethyl Glutarate	1119-40-0	no data available
Benzyl Alcohol	100-51-6	LC50 - Lepomis macrochirus (Bluegill) - 10 mg/l - 96 h, LC50 - Pimephales promelas (fathead minnow) - 460 mg/l - 96 h, EC50 - Daphnia magna (Water flea) - 55 mg/l - 24 h, Daphnia magna (Water flea) - 230 mg/l - 48 h
Polyoxyethylene mono(octyl	9002-93-1	LC50 - Pimephales promelas (fathead minnow) - 8.9 mg/l - 96.0 h, EC50 - Daphnia (water flea) - 26 mg/l - 48 h

13. Disposal considerations

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

14. Transport information

Proper Shipping Name Combustible Liquid, n.o.s. (d-Limonene)

Hazard Class Combustible

Identification Number NA1993

Packing Group III

Label Combustible

15. Regulatory information

Name	CAS
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N-Methyl-2-Pyrrolidone	872-50-4
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SARA 302/304 No components were identified

SARA 313 313

CERCLA No components were identified

SARA 311/312 Fire Hazard, Acute Health Hazard, Chronic Health Hazard

PROP 65 Developmental hazard

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

Name	CAS
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D-Limonene	5989-27-5
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SARA 302/304 No components were identified

SARA 313 No components were identified

CERCLA No components were identified

SARA 311/312 Fire Hazard, Acute Health Hazard, Chronic Health Hazard

PROP 65 No components were identified

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

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Name	CAS
Dimethyl Succinate	106-65-0

SARA 302/304 No components were identified

SARA 313 No components were identified

CERCLA No components were identified

SARA 311/312 Fire Hazard

PROP 65 No components were identified

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

Name	CAS
Dimethyl Adipate	627-93-0

SARA 302/304 No components were identified

SARA 313 No components were identified

CERCLA No components were identified

SARA 311/312 Chronic Health Hazard

PROP 65 No components were identified

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

Name	CAS
Dimethyl Glutarate	1119-40-0

SARA 302/304 No components were identified

SARA 313 No components were identified

CERCLA No components were identified

SARA 311/312 Fire Hazard

PROP 65 No components were identified

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

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Name	CAS
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Benzyl Alcohol	100-51-6
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SARA 302/304	No components were identified
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SARA 313	No components were identified
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CERCLA	No components were identified
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SARA 311/312	Acute Health Hazard, Chronic Health Hazard
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PROP 65	No components were identified
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This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

Name	CAS
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Polyoxyethylene mono(octylphenyl)ether	9002-93-1
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SARA 302/304	No components were identified
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SARA 313	No components were identified
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CERCLA	No components were identified
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SARA 311/312	Acute Health Hazard
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PROP 65	No components were identified
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This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

16. Other information, including date of preparation or last revision

SDS Date: 5/15/2023

Disclaimer:

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