

Safety Data Sheet

According to 1907/2006 EC (REACH), 1272/2008/EC (CLP), and GHS

Print Date 06.05.2015

Revision Date 07.25.2017

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Name: Liquid Haze Remover

Product Code: GR-702

1.2 Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier:

Image Technology, Inc.

1380 N. Knollwood Circle

Anaheim, CA 92782

Phone: 714-252-0160

1.3 Emergency telephone number:

Infotrac

(800) 535- 5053

2. Hazard Identification

2.1 Classification of the substance or mixture

- GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Specific target organ toxicity.

Skin Irrit.

Eye Irrit.

GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

Causes moderate irritation and /or defatting of the skin.

Causes eye irritation and/or dehydration of the eye and eyelids.

Fumes from this product are generally considered harmless.

When concentrate solutions of this product are swallowed, it will cause irritation to the mouth, esophagus and stomach. Other symptoms of ingestion include nausea, dizziness, double vision, headaches, and vomit.

Precautionary statement(s)

Keep away from heat.

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

NFPA rating (scale 0 – 4)



Health = 1

Fire = 1

Reactivity = 0

HMIS-rating (scale 0 - 4)



Health =1

Fire = 1

Reactivity = 0

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- **HMIS Long Term Health Hazard Substances**

Substances is not listed.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT** : Not applicable

- **vPVB**: Not applicable

3. Composition/information on ingredients

3.1 Substances

Substance/mixture

: Mixture

Chemical name

: Mixture of Chemicals Listed below with nonhazardous additions.

CAS number/other identifiers

Ingredient name	%	CAS number	Trade Secret
Aliphatic Dibasic Ester	30 - 90%	1119-40-0	*
Polyethylene glycol nonylphenyl ether	10 - 30%	9016-45-9	*
Diethylene glycol butyl ether	5 - 25%	112-34-5	*
1-Methyl-2-pyrrolidinone	1 - 15%	872-50-4	*

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

4. First aid measures

- **4.1 Description of first aid measures**

- **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
Do not leave affected persons unattended.

- **After inhalation:**

Remove from contaminated area promptly. Supply fresh air. If required, provide artificial respiration. Consult doctor promptly.

- **After skin contact:**

Flush exposed area with lukewarm water for 15 minutes. Consult physician immediately.

- **After eye contact:**

Rinse opened eye for 30minutes under running water.

Remove contact lenses if worn.

Consult physician immediately.

- **After swallowing:**

Induce vomiting. Have patient drink large amounts of water or milk. Consult a physician immediately.

- **4. Indication of any immediate medical attention and special treatment needed**

If swallowed, gastric irritation.

Monitor circulation, possible shock treatment.

If necessary oxygen respiration treatment.

Medical supervision for at least 72 hours.

5. Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents:**

Water spray to cool, CO2, Dry Chemical, Foam dry chemical.

- **For safety reasons unsuitable extinguishing agents:** None

- **5.2 Advice for firefighters**

- **Protective equipment:**

Self contained breathing apparatuses are recommended for fire fighters. Fire fighters should wear butyl rubber boots, gloves, and body suit and a self-contained breathing apparatus.

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- **Additional information** No data available

6. Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment
Keep unprotected persons away
Ensure adequate ventilation

- **6.2 Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

- **6.3 Methods and material for containment and cleaning up:**

Contain spill with dikes of absorbent materials such as clay, sand, or vermiculite. This material is not considered Hazardous and may be disposed of as non-hazardous refuse.

- **6.4 Reference to other sections**

See Section 7 for information on safe handling
See Section 8 for more information on personal protection equipment
See Section 13 for disposal information

7. Handling and Storage

- **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

- **Information about fire - and explosion protection:**

Always ensure that containers are tightly sealed unless in use. Never cut, drill, weld or grind on or near container.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Store in a cool location, away from sources of ignition, heat.
Store only in the original receptacle

- **Information about storage in one common storage facility:**

Store away from flammable substances
Store away from food stuffs

- **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles

- **7.3 Specific end use(s)** No further relevant information available

8. Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **8.1 Control parameters**

Ingredients with limit values that require monitoring at the workplace:

Component	CAS#	Value	Control Parameters	Basis
1-Methyl-2-pyrrolidinone	872-50-4	TWA	10 ppm	USA. Workplace Environmental Exposure Level (WEEL)
	Remarks	Skin		

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		PEL	1 ppm 4 mg/m ³	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		Skin		

- **DNEL: Derived No Effect Level**
 - Skin Contact: Acute Systemic Effects (208 mg/kg BW/d)
 - Inhalation: Acute Systemic Effects (80 mg/m³)
 - Skin Contact: Long-term Systemic Effects (19.8 mg/kg BW/d)
 - Inhalation: Long-term Systemic Effects (40 mg/m³)
- **PNEC: Predicted No Effect Concentration**
 - Water: 5 mg/l
 - Soil: 0.138 mg/kg
 - Marine Water: 0.025 mg/kg
 - Fresh Water: 0.25 mg/l
 - Fresh Water Sediment: 0.805 mg/kg
 - Onsite Sewage Treatment Plant: 10 mg/l

Additional information: The lists valid during the marketing were used as basis.

- **8.2 Exposure controls**
- **Personal protective equipment:**
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Respiratory protection:**
Use suitable respiratory protective device in case of insufficient ventilation.
Use suitable respiratory protective device when high concentrations are present.
- **Protection on hands:**



Protective gloves

To avoid possible defatting of the skin or tissue damage, it is recommended that rubber or plastic gloves be worn.

- **Material of gloves**
Rubber or Plastic
The Selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Not suitable are gloves made of the following materials:** Leather gloves
- **Eye protection:**



Safety glasses

When handling this product and there is the possibility of splashing it is recommended that proper protection for the eyes be worn. This consists of goggles and/or face shield Safety glasses with side shields- always protect the eyes.

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- **Body protection:** When handling chemicals in 55 gallon drums, it is recommended that steel toed rubber boots and a splash apron be worn.
- **Limitation and supervision of exposure into the environment**
No further relevant information available.
- **Risk management measures**
See Section 7 for additional information.
No further relevant information available.

9. Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

General Information

Appearance:

Form:	Liquid
Color:	Colorless
Odor:	Mild Sweet Odor
Odor threshold:	Not determined.
pH (Concentrate):	7
pH (1% solution):	7-11

Change in condition

Freezing point/Freezing range:	Not determined.
Boiling point/Boiling range:	675F
Flash point:	210F
Flammability:	Not determined.
Auto-ignition temperature:	Not determined.
Specific Gravity (water =1)	0.98
Self-igniting:	Not determined.

Explosion limits:

Lower:	0.9%.
Upper:	8.0%.

Vapour pressure:

0.1

Conversion Factor:

Not determined.

Molecular Weight:

Not determined.

Vapour density

Not determined.

Evaporation rate (water=1)

<1

Solubility in / Miscibility with

Soluble

Water

Percentage of Volatiles:

715 g/l

Partition coefficient (n-octanol/water):

Not determined.

Viscosity:

Not determined.

Dynamic:

Not determined.

Kinematic:

Not determined.

9.2 Other information

No further relevant information available.

10. Stability and reactivity

•10.1 Reactivity

•10.2 Chemical stability

Stable under recommended storage conditions.

•Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

•10.3 Possibility of hazardous reactions

No further relevant information available.

•As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes:

No further relevant information available.

•10.4 Conditions to avoid: Heat, flames and sparks.**•10.5 Incompatible materials:** Strong oxidizers.**•10.6 Hazardous decomposition products:**

No further relevant information available.

11. Toxicological information**•11.1 Information on toxicological effects****•Acute toxicity:**

- LD50 Oral: 3,914 mg/kg (rat)
- LDLO Inhalation: 5,100 ppm – 4 hours (rat)
- LD50 Dermal: 8,000 mg/kg (rabbit)

•Primary irritant effect:

•On the skin: May be slight irritating

•On the eye: Likely to be severely irritating

•Sensitization: Not determined.

•Additional toxicological information:

No further relevant information available.

12. Ecological information**•12.1 Toxicity****• Aquatic toxicity:**

- LC50 - 4,000 mg/l (96 hours) – Other Fish
- LC50 - 500 mg/l (96 hours) – Leuciscus Idus
- EC50 – 1,000 mg/l (24 hours) – Dapinia Magne

•12.2 Persistence and degradability

90% - Readily Biodegradable.

•12.3 Bioaccumulative potential

No further relevant information available.

•12.4 Mobility in soil

No further relevant information available.

•Additional ecological information:**•12.5 Results of PBT and vPvB assessment**

•PBT: Not applicable

•vPvB: Not applicable

•12.6 Other adverse effects No further relevant information available.

13. Disposal considerations**•13.1 Waste treatment methods****• Recommendation**

All hazardous materials must be solidified and disposed of in an EPA approved class one facility. When disposing of chemicals, contact local, state, and federal environmental agencies to fully understand the necessary regulations governing the disposal of chemical wastes.

•Uncleaned packaging: must be vented and thoroughly dried prior to crushing and recycling

•Recommendation: Disposal must be made according to official regulations.

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14. Transport information

- 14.1 Un-Number
DOT, ADR , IMDG, IATA Not applicable
- 14.2 Proper shipping name
DOT , ADR, IMDG, IATA Compound Cleaning Liquid
- 14.3 Transport hazard class(es) Not applicable
- Label Haze Remover GR-702
- 14.4 Packing group
DOT, ADR, IMDG, IATA III-Minor Danger

15. Regulatory information

•15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

•United States (USA)

•SARA

•Section 302

No chemicals in this material are subject to the reporting requirements of SARA title III, Section 302.

•Section 313 (Specific toxic chemical listings):

The following components are subject to reporting levels established by SARA Title III, Section 313:

1-Methyl-2-pyrrolidinone – CAS # 872-50-4

•SARA 311/312 Hazards:

Acute Health Hazard , Chronic Health Hazard, Fire Hazard

•Proposition 65 (California):

This product does contain chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

- 1-Methyl-2-pyrrolidinone – CAS # 872-50-4

•State Right to Know

Ingredient name	Pennsylvania	Massachusetts	New Jersey
1-Methyl-2-pyrrolidinone	X	X	X

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Other information

Notice to reader

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