



Hisol Plus

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Hisol Plus
Revision Date: 4/20/2020
Chemical Family: N/A
Chemical Formula: Proprietary
Product Use: Industrial citrus cleaner and degreaser
Supplier Details: Astec Corporation
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 Indianapolis, IN 46268

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2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

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

Health, Serious Eye Damage/Eye Irritation, 2 B
 Health, Skin corrosion/irritation, 2
 Health, Specific target organ toxicity - Single exposure, 3
 Health, Acute toxicity, 5 Oral
 Physical, Flammable Liquids, 4

GHS Label elements, including precautionary statements

GHS Signal Word: **WARNING**

GHS Hazard Pictograms:



GHS Hazard Statements:

H320 - Causes eye irritation
 H315 - Causes skin irritation
 H335 - May cause respiratory irritation
 H303 - May be harmful if swallowed
 H227 - Combustible liquid

GHS Precautionary Statements:

P102 - Keep out of reach of children.
 P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
 P264 - Wash hands and other exposed areas thoroughly after handling.
 P271 - Use only outdoors or in a well-ventilated area.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P403+233 - Store in a well ventilated place. Keep container tightly closed.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
5989-27-5	75-95%	cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-

4 FIRST AID MEASURES

Inhalation:	Remove victim to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately.
Skin Contact:	Remove contaminated clothing. Wash contact area with mild soap and water. Rinse thoroughly.
Eye Contact:	Immediately irrigate eyes with cool flowing water for 15 minutes while blinking eyelids. Get medical attention.
Ingestion:	DO NOT induce vomiting. For a conscious victim, drink one or two cups of milk or water. Never give anything to an unconscious person. Get medical attention immediately.

5 FIRE FIGHTING MEASURES

Extinguishing Media:	Foam, dry powder, carbon dioxide, water spray or sand.
Special Hazards:	Do not use heavy water stream.
Fire Hazards:	Combustible
Explosion Hazard:	Combustible liquid and vapor
Reactivity:	None known.
Firefighter Advise:	Use MSHA / NIOSH approved self-contained breathing apparatus and full protective gear.

6 ACCIDENTAL RELEASE MEASURES

Spill Response:	Wear all protective equipment set forth in Section 8. Provide ventilation. Contain spill. Absorb on inert material or salvage material. Rinse residue with plenty of water
Waste Disposal Method:	Neutralization may be required. Follow all federal, state, and local regulations.

7 HANDLING AND STORAGE

Handling Precautions:	KEEP OUT OF REACH OF CHILDREN. Follow directions on label.
Storage Requirements:	Store in an upright position in a dry area between the temperatures of 40-90 F. Dispose of empty container in accordance with legal regulations

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	Mechanical ventilation if vapor concentration becomes high.
Personal Protective Equip.:	Chemical goggles; Face shield; Gloves (solvent resistant); Protective clothing.
Exposure Guidelines:	If vapor concentration becomes too high, use NIOSH / MSHA approved respiratory protection.

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, amber colored liquid	Odor:	Citrus odor
Physical State:	Liquid	Solubility:	Emulsifies
Spec Grav./Density:	.89	Percent Volatile:	Appr. 90
Boiling Point:	310 F	Flash Point:	143 F
Vapor Pressure:	N/E	Vapor Density:	>1
pH:	Appr. 6.5		
Evap. Rate:	<1		

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STABILITY AND REACTIVITY

Chemical Stability:	Stable
Conditions to Avoid:	Keep away from heat, flames, and sparks. Avoid hot work and sources of ignition on or near empty containers
Materials to Avoid:	Strong oxidizers
Hazardous Decomposition:	Oxides of carbon and nitrogen, products of incomplete combustions
Hazardous Polymerization:	Will not occur

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TOXICOLOGICAL INFORMATION

Information on Toxicological EffectsAcute Toxicity

Product/Ingredient Name	Result	Species	Dose	Exposure
Citrus Terpenes	LD50 Dermal	Rabbit	5 g/kg	-
Citrus Terpenes	LD50 Oral	Rabbit	5 g/kg	-
Citrus Terpenes	RD50	Mouse	1 g/kg	-

Irritation/Corrosion

Mild skin irritant

Sensitization

There is no data available

Carcinogenicity

No components are listed as carcinogens by IARC, ACGIH, OSHA, or NTP above the threshold of 0.1%

Specific Target Organ Toxicity (single exposure)

There is no data available

Specific Target Organ Toxicity (repeated exposure)

There is no data available

Aspiration Hazard

There is no data available

Routes of Exposure: Eyes, Skin, Inhalation (Mist), Ingestion.

Acute Symptoms of Single Overexposure:

Eyes:	Can cause severe eye irritation.
Skin:	May cause skin irritation.
Inhalation:	Can cause irritation if misted.
Ingestion:	Harmful if swallowed. Can cause burning in throat and stomach.

Chronic Symptoms of Single Overexposure:

- Eyes:** Can cause severe eye irritation.
- Skin:** May cause skin irritation.
- Inhalation:** Can cause irritation if misted.
- Ingestion:** Harmful if swallowed. Can cause burning in throat and stomach.

Threshold Limit Value: NE **OSHA Threshold Limit Value:** Citrus Terpenes: 50 ppm
ACGIH Threshold Limit Value: Citrus Terpenes: 20ppm
Carcinogen under NTP program: NE **Carcinogen under IARC program:** NE
Teratogenicity, Mutagenicity, Reproductive Effects: No data available. **Ecotoxicity-Fish Species Data:** No data available.

12	ECOLOGICAL INFORMATION
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Toxicity
 There is no data available.

Persistence and Degradability
 Biodegradable based on components

Bioaccumulative Potential
 There is no data available

Mobility in Soil
Soil/Water partition coefficient: Not available

Other Adverse Effects
 No known significant effects or critical hazards

13	DISPOSAL CONSIDERATIONS
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Disposal of Waste Method: Must be in accordance with state, municipal, provincial and federal regulations.
Contaminated Packaging: Empty container should be recycled or disposed through an approved waste management facility.

14	TRANSPORT INFORMATION
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USDOT (Dept of Transportation) Shipping Name: Not regulated in 55-gallon drum packages or less.
USDOT Hazard Class: NA
TDG (Canada): Not regulated when shipped in containers of less than 450 liters.

15	REGULATORY INFORMATION
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Component (CAS#) [%] - CODES

 Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- (5989-27-5) [n/a%] TSCA

Regulatory CODE Descriptions

 HAP = Hazardous Air Pollutants
 TSCA = Toxic Substances Control Act

SDS Legend: N/A=Not Applicable N/E=Not Established Appr.=Approximately

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