

Safety Data Sheet acc. to OSHA HCS

Printing date 05/30/2022

1 Identification

- · Product identifier
- · Trade name: Special thinner
- · Article number: Series 10-0330
- CAS Number: 108-94-1
- **EC number:** 203-631-1
- Index number: 606-010-00-7
- · Application of the substance / the mixture Additive
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier:
 DECO TECHnology Group Inc.

PRINTCOLOR SCREEN AG TEL (714) 639-3326 FAX (714) 639-2261

- · Information department: Product safety department
- Emergency telephone number: 800-535-5053

2 Hazard(s) identification

· Classification of the substance or mixture



Flammable Liquids 3

H226 Flammable liquid and vapor.

GHS07

Acute Toxicity - Inhalation 4 H332 Harmful if inhaled.

· Label elements

- · GHS label elements
- The substance is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



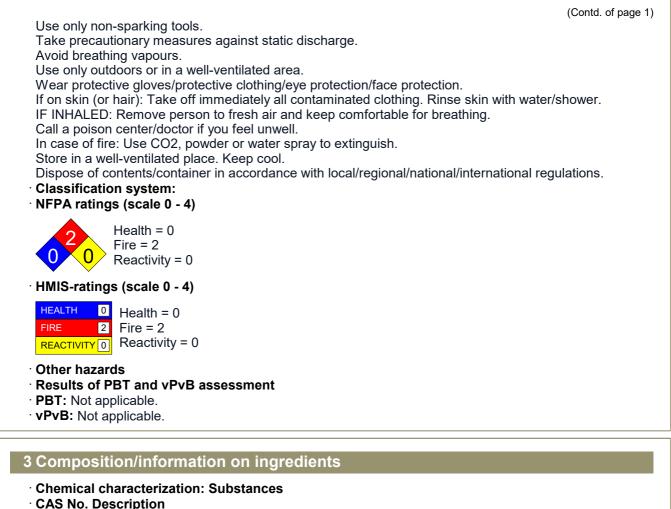
- · Signal word Warning
- · Hazard-determining components of labeling: cyclohexanone
- **Hazard statements** Flammable liquid and vapor. Harmful if inhaled.
- Precautionary statements
 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 Keep container tightly closed.
 Ground/bond container and receiving equipment.
 Use explosion-proof electrical/ventilating/lighting/equipment.

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CAS NO. Description

- CAS: 108-94-1 cyclohexanone
- Identification number(s)
 EC number: 203-631-1
- · Index number: 606-010-00-7

4 First-aid measures

- 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.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.

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• Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment:
- Mouth respiratory protective device. Wear self-contained respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
- Wear protective equipment. Keep unprotected persons away. **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

- Ensure adequate ventilation. **Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
- Protective Action Criteria for Chemicals
- · PAC-1:
- 60 ppm
- · PAC-2:
- 830 ppm
- · PAC-3:
- 5000* ppm

7 Handling and storage

- · Handling:
- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Storage class: 3
- · Specific end use(s) No further relevant information available.

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	osure controls/personal protection
	tional information about design of technical systems: No further data; see item 7.
	rol parameters
	ponents with limit values that require monitoring at the workplace:
	108-94-1 cyclohexanone
	Long-term value: 200 mg/m³, 50 ppm
REL	Long-term value: 100 mg/m³, 25 ppm Skin
TLV	Short-term value: 50 ppm Long-term value: 20 ppm Skin, BEI, A3
-	edients with biological limit values:
	: 108-94-1 cyclohexanone
	80 mg/L Medium: urine
	Time: end of shift at end of workweek
	Parameter: 1.2-Cyclohexanediol (with hydrolysis, nonspecific, nonquantitative)
· Addi	8 mg/L Medium: urine Time: end of shift Parameter: Cyclohexanol (with hydrolysis, nonspecific, nonquantitative) tional information: The lists that were valid during the creation were used as basis.
	osure controls
	onal protective equipment:
	eral protective and hygienic measures: away from foodstuffs, beverages and feed.
	hands before breaks and at the end of work.
	thing equipment: Not necessary if room is well-ventilated.
The g Due	ection of hands: glove material has to be impermeable and resistant to the product/ the substance/ the preparation. to missing tests no recommendation to the glove material can be given for the product/ the product/ the substance.
Seleo degra	aration/ the chemical mixture. ction of the glove material on consideration of the penetration times, rates of diffusion and th adation
The s qualit	rial of gloves selection of the suitable gloves does not only depend on the material, but also on further marks by and varies from manufacturer to manufacturer.
The e	exact break trough time has to be found out by the manufacturer of the protective gloves and has observed. protection:
	Tightly sealed goggles

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Information on basic physical and of General Information	chemical properties
Appearance:	
Form:	Fluid
Color: Odor:	Colorless
Odor threshold:	Characteristic Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	-31 °C (-23.8 °F)
Boiling point/Boiling range:	156 °C (312.8 °F)
Flash point:	44 °C (111.2 °F) (Abel Pensky)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	420 °C (788 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Not determined.
Danger of explosion:	Product is not explosive. However, formation of explosive air vapor mixtures are possible.
Explosion limits:	
Lower:	1.3 Vol %
Upper:	9.4 Vol %
Vapor pressure at 20 °C (68 °F):	4 hPa (3 mm Hg)
Density at 20 °C (68 °F):	0.95 g/cm³ (7.93 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	00 //
Water at 20 °C (68 °F):	80 g/l
Partition coefficient (n-octanol/wate	er): Not determined.
Viscosity:	15 mDoo
Dynamic at 20 °C (68 °F): Kinematic:	15 mPas Not determined.
VOC content:	≤100.00 %
voo content.	≤950.0 g/l / ≤7.93 lb/gal
VOC (EC)	≤100.00 %
Other information	No further relevant information available.

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.

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· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

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	-	
Oral	LD50	1,620 mg/kg (rat)
Dermal	LD50	948 mg/kg (rabbit)
Inhalative	LC50/4 h	8,000 mg/l (rat)

Primary irritant effect:

- on the skin: No irritant effect.
- · on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

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· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.

 \cdot Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. (Contd. on page 7)

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· Uncleaned packagings:

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

Transport information	
· UN-Number · DOT, ADR, IMDG, IATA	UN1210
· UN proper shipping name · DOT · ADR · IMDG, IATA	Printing ink related material 1210 PRINTING INK RELATED MATERIAL PRINTING INK RELATED MATERIAL
· Transport hazard class(es)	
DOT	
Class	3 Flammable liquids
Label	3
· ADR, IMDG, IATA	
· Class · Label	3 Flammable liquids 3
 Packing group DOT, ADR, IMDG, IATA 	
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids
 Hazard identification number (Kemler code): EMS Number: 	30 F-E,S-D
• Stowage Category	A
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	· •
ADR	
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
·IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
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· UN "Model Regulation":

UN 1210 PRINTING INK RELATED MATERIAL, 3, III

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

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- · Sara
- · Section 355 (extremely hazardous substances):
- Substance is not listed.
- · Section 313 (Specific toxic chemical listings):
- Substance is not listed.
- TSCA (Toxic Substances Control Act):
- ACTIVE
- · Hazardous Air Pollutants
- Substance is not listed.
- · Proposition 65
- · Chemicals known to cause cancer:
- Substance is not listed.
- Chemicals known to cause reproductive toxicity for females:
- Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males:
- Substance is not listed.
- · Chemicals known to cause developmental toxicity:
- Substance is not listed.
- Cancerogenity categories
- EPA (Environmental Protection Agency)
- Substance is not listed.
- TLV (Threshold Limit Value)

A3

- · NIOSH-Ca (National Institute for Occupational Safety and Health)
- Substance is not listed.
- · GHS label elements
- The substance is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms



- · Signal word Warning
- Hazard-determining components of labeling: cyclohexanone
- Hazard statements
 Flammable liquid and vapor.
 Harmful if inhaled.
- **Precautionary statements** Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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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.

Avoid breathing vapours.

Use only outdoors or in a well-ventilated area.

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

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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IF INHALED: Remove person to fresh air and keep comfortable for breathing.

- Call a poison center/doctor if you feel unwell.
- In case of fire: Use CO2, powder or water spray to extinguish.

Store in a well-ventilated place. Keep cool.

- Dispose of contents/container in accordance with local/regional/national/international regulations.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Product safety department
- Contact: hse@printcolor.ch
- · Date of preparation / last revision 05/30/2022 / 2
- Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL: Recommended Exposure Limit BEI: Biological Exposure Limit** Flammable Liquids 3: Flammable liquids – Category 3 Acute Toxicity - Inhalation 4: Acute toxicity - Category 4 US