

Safety Data Sheet

Revision Date: 04/08/2015
Z20000012320/Version: 2.0
Print Date: 11/20/2018
Page: 1/12



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

Product name: ULTRA CLARITY LENS CLEANER

Product code: 10075331

Synonyms: None.

Relevant identified uses of the substance or mixture and uses advised against:

Identified uses: Cleaning agent. For industrial use only.

Supplier: EASTMAN KODAK COMPANY, 343 State Street, Rochester, New York 14650

IN EMERGENCY, telephone: 1-800-424-9300 or +1 703-527-3887.

For further information about this product, call (800) 242-2424.

2. Hazards identification

Classification of the chemical in accordance with paragraph (d) of 29 CFR 1910.1200:

Hazard class	Hazard category	Route of exposure
Flammable liquids	Category 3	--
Serious eye damage/eye irritation	Category 2A	--

GHS-Labeling

Contains:
Isopropanol (67-63-0)

Symbol(s):



Signal word: Warning

Hazard statements: Flammable liquid and vapour. Causes serious eye irritation.

Safety Data Sheet

Revision Date: 04/08/2015
Z20000012320/Version: 2.0
Print Date: 11/20/2018
Page: 2/12

Precautionary statements:

Prevention: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling.

Response: In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

Storage: Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulation.

Other hazards which do not result in classification:

Potential peroxide former.

HMIS III Hazard Ratings: Health - 2, Flammability - 2, Physical Hazard - 0

NFPA Hazard Ratings: Health - 2, Flammability - 2, Instability - 0

NOTE: HMIS III and NFPA 704 (2007) hazard indexes involve data review and interpretation that may vary among companies. They are intended only for rapid, general identification of the magnitude of the potential hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

3. Composition/information on ingredients

Weight percent	Components - (CAS-No.)
2.5 - 10	Isopropanol (67-63-0)
< 2	Proprietary (proprietary)

4. First aid measures

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

Safety Data Sheet

Revision Date: 04/08/2015
Z20000012320/Version: 2.0
Print Date: 11/20/2018
Page: 3/12

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

Skin: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. If skin irritation occurs: Get medical advice/ attention.

Ingestion: IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed: No information available.

Indication of any immediate medical attention and special treatment needed:

Treatment: No information available.

5. Firefighting measures

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use water spray to cool unopened containers.

Special hazards arising from the substance or mixture

Hazardous Combustion Products: Carbon oxides

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Unusual Fire and Explosion Hazards: Flammable Material contains a flammable solvent that may accumulate in the container headspace. May form peroxides of unknown stability. Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along floors. Prevent buildup of vapours or gases to explosive concentrations.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Refer to protective measures listed in sections 7 and 8.

Methods and materials for containment and cleaning up: Remove all sources of ignition. Absorb spill with inert material, then place in a chemical waste container. Clean surface thoroughly to remove residual contamination. Dry or wet electrostatic microfiber cleaning cloths may also be effective.

Environmental precautions: No information available.

7. Handling and storage

Safety Data Sheet

Revision Date: 04/08/2015
Z20000012320/Version: 2.0
Print Date: 11/20/2018
Page: 4/12

Precautions for safe handling

Personal precautions: Avoid breathing mist or vapour at concentrations greater than the exposure limits. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Prevention of Fire and Explosion: Keep away from heat and sources of ignition. Keep from contact with oxidizing materials. Use only with adequate ventilation. If peroxide formation is suspected, do not open or move container. Do not distill or allow to evaporate to near dryness. Minimize exposure to air.

Conditions for safe storage, including any incompatibilities: Protect against light. Keep containers tightly closed in a cool, well-ventilated place. Keep away from incompatible substances (see Incompatibility section.)

8. Exposure controls/personal protection

Occupational exposure controls

Chemical Name	Regulatory List	Value Type	Value
Isopropanol	ACGIH	Time weighted average	200 ppm
Isopropanol		Short term exposure limit	400 ppm
	OSHA	Time weighted average	400 ppm 980 mg/m3

Appropriate engineering controls: Good general ventilation should be used. Ventilation should be sufficient so that applicable occupational exposure limits are not exceeded. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances.

Individual protection measures, such as personal protective equipment

Eye protection: Wear safety glasses with side shields (or goggles).

Hand protection: For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

Respiratory protection: None should be needed. If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. If respirators are used, a program should be instituted to assure compliance with applicable federal, state, commonwealth, provincial, or local laws and regulations.

9. Physical and chemical properties

Physical form: liquid

Safety Data Sheet

Revision Date: 04/08/2015
Z20000012320/Version: 2.0
Print Date: 11/20/2018
Page: 5/12

Particle size: May be less than 100 nm.

Colour: greenish-blue

Odour: No data available

Specific gravity: 0.95

Vapour pressure: No data available

Vapour density: No data available

Boiling point/boiling range: 100 °C (212.0 °F) at 1,013 hPa

Melting point/range: -5 °C (23.0 °F)

Water solubility: completely soluble

pH: 7

Flash point: 51 °C (123.8 °F) (Pensky-Martens closed cup)

Evaporation rate: No data available

Flammability (Solid; gas): No data available

Upper explosion limit: No data available

Lower explosion limit: No data available

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

Explosive properties: No data available

Oxidizing properties: No data available

10. Stability and reactivity

Reactivity: No data available

Safety Data Sheet

Revision Date: 04/08/2015
Z20000012320/Version: 2.0
Print Date: 11/20/2018
Page: 6/12

Chemical stability: Normally stable; however, on long term storage, materials containing similar functional groups form peroxides of unknown stability.

Possibility of hazardous reactions: Hazardous polymerisation does not occur.

Conditions to avoid: No data available

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: None under normal conditions of use.

11. Toxicological information

Effects of Exposure

General advice:

Contains: Isopropanol. Ingestion of large amounts of isopropyl alcohol may cause headache, dizziness, incoordination, vomiting, confusion, stupor, kidney injury coma and death. Prolonged exposure to high vapour concentrations of isopropyl alcohol may cause irritation of the eyes, nose, and throat and narcosis. Can cause CNS effects.

Inhalation: Expected to be a low hazard for recommended handling.

Eyes: Causes serious eye irritation.

Skin: Prolonged or repeated contact may cause drying, cracking, or irritation.

Ingestion: May cause irritation of the gastrointestinal tract. Ingestion of large amounts of isopropyl alcohol may cause headache, dizziness, incoordination, vomiting, confusion, stupor, kidney injury coma and death.

Data for Isopropanol (CAS 67-63-0):

Acute Toxicity Data:

Oral LD50 (Rat): 5,045 mg/kg

- Inhalation LC50 (Rat): 51 mg/l / 8 hr
- Inhalation LC50 (Rat): 72,600 mg/m³ / 4 hr
- Dermal LD50 (Rabbit): 4,059 mg/kg
- Dermal LD50 (Rat): 13,900 mg/kg
- Dermal LD50 (Rabbit): 12,870 mg/kg
- Skin irritation: No skin irritation
- Skin Sensitization (Guinea pig): none
- Eye irritation: slight to moderate

Safety Data Sheet

Revision Date: 04/08/2015
Z20000012320/Version: 2.0
Print Date: 11/20/2018
Page: 7/12

Mutagenicity/Genotoxicity Data:

- Salmonella/Mammalian-Microsome Reverse Mutation Screening Assay (TA98, TA100, TA1535, TA1537, TA1538): negative (in presence and absence of activation)
- CHO/HGPRT assay: negative (in presence and absence of activation)
- Cell transformation assay: negative (in absence of activation)
- Mouse micronucleus assay: negative

Definitions for the following section(s): LOEL =lowest-observed-effect level, LOAEL = lowest-observed-adverse-effect, NOAEL = no observed-adverse-effect level, NOEL =no-observed-effect level.

Repeated dose toxicity:

- Inhalation (13 week, male and female Rat): NOEL; 500 ppm

Developmental Toxicity Data:

- Oral (female Rabbit): maternal NOAEL; 240mg/kg/day
- Oral (female Rabbit): NOAEL for developmental toxicity; 480mg/kg/day

Reproductive Toxicity Data:

- Oral (male and female Rat): NOEL for reproductive toxicity; < 500 ppm

Carcinogenicity:

- Inhalation (male and female Rat, 2 years): NOEL; > 5,000 ppm

Carcinogenicity

American Conference of Governmental Industrial Hygienists (ACGIH):	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
International Agency for Research on Cancer (IARC):	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
U.S. National Toxicology Program (NTP):	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
U.S. Occupational Safety and Health Administration (OSHA):	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen

Safety Data Sheet

Revision Date: 04/08/2015
Z20000012320/Version: 2.0
Print Date: 11/20/2018
Page: 8/12

California Prop. 65

or potential carcinogen by OSHA.

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

12. Ecological information

The following properties are ESTIMATED from the components of the preparations.

Potential Toxicity:

Toxicity to fish (LC50): > 100 mg/l

Toxicity to daphnia (EC50): > 100 mg/l

Persistence and degradability: Readily biodegradable

Bioaccumulative potential

No data available

Mobility in soil

No information available.

13. Disposal considerations

Discharge, treatment, or disposal may be subject to federal, state, commonwealth, provincial, or local laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

The information below is provided to assist in documentation. It represents the dangerous goods classification before any regulatory exceptions are taken (e.g. "limited quantity") and therefore may not represent the final classification. The final classification as it pertains to the product packaging configuration (including labeling, marking, and exceptions) may be obtained via the Dangerous Goods Worksheet which can be found at www.kodak.com/go/ship.

IATA:	UN number:	UN1987
	Proper shipping name:	ALCOHOLS, N.O.S. (Isopropanol)
	Class:	3

Safety Data Sheet

Revision Date: 04/08/2015
Z20000012320/Version: 2.0
Print Date: 11/20/2018
Page: 9/12

	Packaging group:	III
IMDG:	UN number:	UN1987
	Proper shipping name:	ALCOHOLS, N.O.S. (Isopropanol)
	Class:	3
	Packaging group:	III
US DOT:	UN number:	UN1987
	Proper shipping name:	ALCOHOLS, N.O.S. (Isopropanol)
	Class:	3
	Packaging group:	III

For more transportation information, go to: www.kodak.com/go/ship.

15. Regulatory information

Notification status

Regulatory List	Notification status
TSCA	Not all listed
DSL	Not all listed
NDSL	None listed
EINECS	Not all listed
ELINCS	None listed
NLP	None listed
AICS	Not all listed
IECS	Not all listed
ENCS	Not all listed
ECI	Not all listed
NZIoC	Not all listed
PICCS	Not all listed

"Not all listed" indicates one or more component is either not on the public Inventory or is subject to exemption requirements. If additional information is needed contact Kodak.

Other regulations

U.S. - CERCLA/SARA (40 CFR § 302.4 Designation of No components of this product are

Safety Data Sheet

Revision Date: 04/08/2015
Z20000012320/Version: 2.0
Print Date: 11/20/2018
Page: 10/12

hazardous substances):	subject to the SARA Section 302 (40 CFR 302.4) reporting requirements.
U.S. - CERCLA/SARA - Section 302 (40 CFR § 355 Appendices A and B - The List of Extremely Hazardous Substances and Their Threshold Planning Quantities):	No components of this product are subject to the SARA Section 302 (40 CFR 355) reporting requirements.
U.S. - CERCLA/SARA - Section 313 (40 CFR § 372.65 Toxic Chemical Release Reporting):	Isopropanol
U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances:	Isopropanol
U.S. - California - 8 CCR Section 5200-5220 - Specifically Regulated Carcinogens:	No components found on the California Specifically Regulated Carcinogens List.
U.S. - California - 8 CCR Section 5203 Carcinogens:	No components found on the California Section 5203 Carcinogens List.
U.S. - California - 8 CCR Section 5209 Carcinogens:	No components found on the California Section 5209 Carcinogens List.
U.S. - Massachusetts - General Law Chapter 111F (MGL c 111F) - Hazardous Substances Disclosure by Employers (a.k.a. Right to Know Law):	Isopropanol
U.S. - Minnesota Employee Right-to-Know (5206.0400, Subpart 5. List of Hazardous Substances):	Isopropanol
U.S. - New Jersey - Worker and Community Right to Know Act (N.J.S.A. 34:5A-1):	Isopropanol
U.S. - Pennsylvania - Part XIII. Worker and Community Right-to-Know Act (Chapter 323 Hazardous Substance List, Appendix A):	Water , Isopropanol

16. Other information

The data below reflects current legislative requirements whereas the product in your possession may carry a different version of the label depending on the date of manufacture.

US/Canadian Label Statements:

ULTRA CLARITY LENS CLEANER

Contains:

Isopropanol (67-63-0)

Safety Data Sheet

Revision Date: 04/08/2015
Z20000012320/Version: 2.0
Print Date: 11/20/2018
Page: 11/12

Symbol(s):



Signal word: Warning

Hazard statements: Flammable liquid and vapour. Causes serious eye irritation.

Precautionary statements:

Prevention: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling.

Response: In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

Storage: Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulation.

FIRST AID: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. If skin irritation occurs: Get medical advice/ attention. IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Never give anything by mouth to an unconscious person. Keep out of reach of children. Do not handle or use until safety precautions in Material Safety Data Sheet (MSDS) have been read and understood. Since emptied containers retain product residue, follow label warnings even after container is emptied. **IN CASE OF FIRE:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use water spray to cool

Safety Data Sheet

Revision Date: 04/08/2015
Z20000012320/Version: 2.0
Print Date: 11/20/2018
Page: 12/12

unopened containers. **IN CASE OF SPILL:** Remove all sources of ignition. Absorb spill with inert material, then place in a chemical waste container. Clean surface thoroughly to remove residual contamination. Dry or wet electrostatic microfiber cleaning cloths may also be effective.

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment. The information relating to the working solution is for guidance purposes only, and is based on correct mixing and use of the product according to instructions.

R-1, S-2, F-2, C-1E