

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Identification of the substance or mixture

Product name: DRYVIEW 8900 Laser Imager Processor Cleaner

Product code: UNSP8643074

Pure substance/mixture Mixture

Use of the Substance/Mixture

Product Use: Cleaning agent.

Company/Undertaking Identification

Supplier Carestream Health Japan Co., Ltd., 2-27-1 Shinkawa, Chuo-ku, Tokyo, Japan

For further information, please contact:

For environment, health and safety information, email: WW-EHS@carestreamhealth.com

Emergency telephone

Emergency telephone +(81)-345209637

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

This material is not classified as hazardous according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

GHS Label elements, including precautionary statements

This material is not classified as hazardous according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Other hazards which do not result in classification

General Hazards

Rapidly absorbed through the skin

May cause increased dermal absorption of other more toxic materials

May be irritating to eyes, respiratory system and skin

Systemic absorption may cause a garlic-like odor in the mouth and on the skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Weight %
Dimethyl sulfoxide	90-100
Water	<10

4. FIRST AID MEASURES

Description of necessary first-aid measures

General advice	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
Main Symptoms	Irritation. May cause drowsiness or dizziness. Garlic taste and odor may occur on the breath and skin
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if symptoms occur.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention immediately if symptoms occur.
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately if symptoms occur. If breathing is difficult, give oxygen.
Ingestion	Rinse mouth. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

Most important symptoms/effects, acute and delayed

Skin contact	May cause skin irritation and/or dermatitis. No skin irritation was observed in animal testing. Rapidly absorbed through the skin. Systemic absorption may cause central nervous system effects. Garlic taste and odor may occur on the breath and skin. May cause increased dermal absorption of other more toxic materials.
Eye contact	May cause eye irritation. No irritation was observed in animal testing.
Inhalation	May cause irritation of respiratory tract.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause central nervous system effects.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Suitable Extinguishing Media	Water spray. Alcohol-resistant foam. Dry chemical. Carbon dioxide (CO ₂).
Extinguishing media which shall not be used for safety reasons	Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Special Hazard

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Special protective actions for fire-fighters**Special protective equipment for fire-fighters**

Wear self-contained breathing apparatus and protective suit.

Other information**Other information**

Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

Advice for emergency responders

For personal protection see section 8.

Environmental precautions

Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. Try to prevent the material from entering drains or water courses.

Methods and materials for containment and cleaning up

Prevent further leakage or spillage if safe to do so.

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Other information

See Section 12 for additional Ecological information.

7. HANDLING AND STORAGE

Precautions for safe handling**Advice on safe handling**

Ensure adequate ventilation. Wear personal protective equipment. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Prevent the formation of vapors, mists and aerosols. Do not breathe vapors or spray mist.

Conditions for safe storage, including any incompatibilities**Technical measures/Storage conditions**

Keep away from open flames, hot surfaces and sources of ignition. Keep containers tightly closed in a dry, cool and well-ventilated place.

Materials to Avoid

Strong oxidizing agents. Strong bases. Strong acids. Strong reducing agents. Acid anhydrides.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits The product does not contain any hazardous materials with occupational exposure limits established.

Appropriate engineering controls

Engineering Measures Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Individual protection measures, such as personal protective equipment (PPE)

Personal Protective Equipment

General Information	If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, appropriate respiratory protection should be worn. Respirator type: organicvapour/P95. Respiratory protection must be provided in accordance with current local regulations.
Eye Protection	Safety glasses with side-shields. If splashes are likely to occur, wear: Goggles.
Skin and body protection	Long sleeved clothing. Impervious clothing.
Hand Protection	Impervious gloves.

Hygiene measures When using, do not eat, drink or smoke. Wear suitable gloves and eye/face protection. Wash hands before breaks and at the end of workday. Wash hands with water as a precaution. Regular cleaning of equipment, work area and clothing is recommended. Avoid breathing vapors, mist or gas.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state liquid	Odor Odorless
ph 8.5	Color colorless
Flash point: > 99 °C	Autoignition temperature: 214 °C
Boiling point/boiling range No information available	

Vapor Pressure No information available
Vapor density No information available
Density No information available
Water Solubility completely soluble
Melting point/range: > -1 °C
Specific Gravity 1.1
Bulk Density: No information available

10. STABILITY AND REACTIVITY

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

Not fully evaluated. Materials containing similar structural groups can decompose if heated.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Heat, flames and sparks.

Materials to Avoid

Strong oxidizing agents. Strong bases. Strong acids. Strong reducing agents. Acid anhydrides.

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapors: Carbon oxides, Sulfur oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity - Product Information

Skin contact	May cause skin irritation and/or dermatitis. No skin irritation was observed in animal testing. Rapidly absorbed through the skin. Systemic absorption may cause central nervous system effects. Garlic taste and odor may occur on the breath and skin. May cause increased dermal absorption of other more toxic materials.
Eye contact	May cause eye irritation. No irritation was observed in animal testing.
Inhalation	May cause irritation of respiratory tract.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause central nervous system effects.
Oral	14,646.00 mg/kg
Dermal	40,404.00 mg/kg
Inhalation	
Gas	No information available
Mist	No information available
Vapor	No information available

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Dimethyl sulfoxide	14500 mg/kg (Rat)	40 g/kg (Rat)	
Water	90,000 mg/kg (Rat)		

Chemical Name	Other applicable information
Dimethyl sulfoxide	Can cause CNS effects. Systemic absorption may cause a garlic-like odor in the mouth and on the skin.

Aggravated Medical Conditions None known.

Subchronic toxicity

Chronic toxicity

Chronic toxicity Effects expected to be similar to those seen acutely.
Sensitization Did not cause sensitization on laboratory animals.
Neurological effects No information available.
Target Organ Effects Central nervous system, Eyes, Skin.

CMR Effects

Carcinogenicity Contains no ingredient listed as a carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Contains no substances known to be hazardous to aquatic organisms.

Acute aquatic toxicity Product Information

Not expected to be acutely toxic to aquatic organisms.

Acute aquatic toxicity Component Information

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Dimethyl sulfoxide	12350 - 25500 mg/L EC50 96 h (Skeletonema costatum)	LC50= 34000 mg/L Pimephales promelas 96 h LC50 33 - 37 g/L Oncorhynchus mykiss 96 h LC50> 40 g/L Lepomis macrochirus 96 h LC50= 41.7 g/L Cyprinus carpio 96 h	EC50 = 7000 mg/L 24 h (Daphnia species)

Persistence and degradability

Not readily biodegradable

Bioaccumulative potential

No information available

Chemical Name	log Pow
Dimethyl sulfoxide	-2.03

Mobility in soil

No information available

13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused Products Dispose of in accordance with local regulations.

Contaminated packaging Do not re-use empty containers. Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

The information given below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions. Please consult the product packaging for further details.

<u>ADR/RID</u>	Not regulated
Hazchem Code	2X, 3W, 3WE
<u>IMDG/IMO</u>	Not regulated
<u>ICAO/IATA</u>	Not regulated
<u>ADN</u>	Not regulated
<u>TDG</u>	Not regulated

For transportation information, go to: <http://ship.carestreamhealth.com>.

15. REGULATORY INFORMATION

International Inventories

EINECS/ELINCS	Complies
TSCA	Complies
DSL/NDSL	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies
NZIoC	Complies

Legend

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

National regulatory information

Chemical Name	Restrictions on use	Threshold limits
Dimethyl sulfoxide - 67-68-5	4	

16. OTHER INFORMATION

Revision Date 2013-08-13
Revision Note Initial Release

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

End of Material Safety Data Sheet