

Material Safety Data Sheet

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

Product name: 76APZ COUPLER

Product code: 10092964

Supplier: Carestream Health, Inc., 150 Verona Street, Rochester, New York 14608; Carestream Health Canada Company, 6 Monogram Place, Suite 200, Toronto, Ontario, M9R 0A1

For Emergency Health Information call, (800) 424-9300

For other information contact 800-328-2910.

Synonyms: None.

Product Use: Film or paper manufacturing chemical

2. Hazards identification

CONTAINS: 3,4-Dichloro-N-(5-chloro-4-((2-((4-(dodecyloxy)phenyl)sulfonyl)-1-oxobutyl)amino)-2-hydroxyphenyl)-benzamide (not applicable)

CAUTION!

POWDERED MATERIAL MAY FORM EXPLOSIVE DUST-AIR MIXTURES

CAN DECOMPOSE AT ELEVATED TEMPERATURES

LOW HAZARD FOR RECOMMENDED HANDLING

NFPA Hazard Ratings: Health - 3, Flammability - 1, Instability - 1

NOTE: NFPA 704 (2001) hazard indexes involves data review and interpretation that may vary among companies. It is 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 %	Components (CAS-No.)
100	3,4-Dichloro-N-(5-chloro-4-((2-((4-(dodecyloxy)phenyl)sulfonyl)-1-oxobutyl)amino)-2-hydroxyphenyl)-benzamide (not applicable)

4. First aid measures

Inhalation: If inhaled, move to fresh air. Get medical attention if symptoms occur.

Eyes: Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms occur.

Skin: Wash off with soap and water. Get medical attention if symptoms occur.

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Ingestion: Get medical attention if symptoms occur.

5. Fire-fighting measures

Extinguishing Media: Water spray, Carbon dioxide (CO₂), Dry chemical.

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing. Fire or excessive heat may produce hazardous decomposition products. Use water spray to cool unopened containers.

Hazardous Combustion Products: Carbon oxides, nitrogen oxides (NO_x), sulphur oxides, (see also Hazardous Decomposition Products section).

Unusual Fire and Explosion Hazards: Fire or high temperatures may cause decomposition. Dust may form explosive mixture in air.

6. Accidental release measures

Methods for cleaning up: Shovel into suitable container for disposal. Avoid dust formation. Clean surface thoroughly to remove residual contamination.

7. Handling and storage

Personal precautions: Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: Keep away from heat and sources of ignition. Exercise caution if heating, especially in a closed container. Dust may form explosive mixture in air. Minimize dust generation and accumulation. Use only with adequate ventilation. Refer to NFPA 654, "Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids." Keep from contact with oxidizing materials.

Storage: Keep container tightly closed. Keep away from incompatible substances (see Incompatibility section.)

8. Exposure controls / personal protection

Occupational exposure controls: Not established

Ventilation: 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.

Respiratory protection: None should be needed.

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

Skin and body protection: For operations where prolonged or repeated skin contact may occur,

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impervious gloves should be worn.

Recommended Decontamination Facilities: Safety shower, eye wash, washing facilities as appropriate to condition of use.

9. Physical and Chemical Properties

Physical form: solid

Colour: yellow

Odour: No data available

Specific gravity: No data available

Vapour pressure: No data available

Vapour density: No data available

Volatile fraction by weight: No data available

Boiling point/range: 227.0 °C (440.6 °F) (Decomposes above)

Melting point/range: 160.0 - 170.0 °C (320.0 - 338.0 °F)

Water solubility: No data available

pH: not applicable

Flash point: not applicable

10. Stability and reactivity

Stability: Stable under normal conditions. Safe handling temperatures are dependent on specific conditions of use and are typically substantially below the onset temperature. Consult your technical safety experts.

Exotherm onset temperature: 260 °C by DSC

Incompatibility: Strong oxidizing agents.

Hazardous decomposition products: nitrogen oxides (NO_x), sulphur oxides, hydrogen chloride.

Hazardous Polymerization: Hazardous polymerization does not occur.

11. Toxicological information

Effects of Exposure

Inhalation: Low hazard for recommended handling.

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Eyes: No specific hazard known. May cause transient irritation.

Skin: Low hazard for recommended handling.

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

Acute Toxicity Data:

- Oral LD50 (rat): > 2,000 mg/kg
- Dermal LD50: > 2,000 mg/kg
- Skin irritation: none
- Skin Sensitization (guinea pig): none
- Eye irritation (unwashed eyes): slight
- Eye irritation (washed eyes): slight

Mutagenicity/Genotoxicity Data:

- Salmonella-E. coli/Mammalian-Microsome Reverse Mutation Assay: negative (in presence and absence of activation)
- Chromosomal aberration assay: negative (in presence and absence of activation)

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:

- Oral (28-day, male rat): NOEL; 1176 mg/kg/day
- Oral (28-day, females rat): NOEL; 1285 mg/kg/day

12. Ecological information

Data for this substance have been used to estimate its environmental impact.

Potential Toxicity:

Fish LC50:	(Exposure time: 96 hr) > aqueous solubility
Fish LC50:	> aqueous solubility
Daphnid EC50:	(Exposure time: 48 hr) > aqueous solubility
Daphnid EC50:	> aqueous solubility
Algal IC50:	(Exposure time: 72 hr) > aqueous solubility
Algal IC50:	> aqueous solubility
Waste treatment organisms EC50:	> 1,000 mg/l (Exposure time: 3 hr)
Waste treatment organisms EC50:	> 100 mg/l
Organics Readily Degradable:	Not readily biodegradable

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Organics Readily Degradable: No
Potential Bioaccumulation: log Pow 9.47 estimated

13. Disposal considerations

Discharge, treatment, or disposal is subject to national, state, provincial, or municipal laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

Not regulated for all modes of transportation.

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

15. Regulatory information

U.S. California Prop. 65: none

Carcinogenicity Classification (components present at 0.1% or more):

International Agency for Research on Cancer (IARC): none
American Conference of Governmental Industrial Hygienists (ACGIH): none
U.S. National Toxicology Program (NTP): none
U.S. Occupational Safety and Health Administration (OSHA): none

Chemical(s) subject to the reporting requirements of U.S. Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372:
none

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:

CONTAINS: 3,4-Dichloro-N-(5-chloro-4-((2-((4-(dodecyloxy)phenyl)sulfonyl)-1-oxobutyl)amino)-2-hydroxyphenyl)-benzamide (not applicable)

**CAUTION!
POWDERED MATERIAL MAY FORM EXPLOSIVE DUST-AIR MIXTURES
CAN DECOMPOSE AT ELEVATED TEMPERATURES
LOW HAZARD FOR RECOMMENDED HANDLING**

Avoid breathing dust.
Avoid contact with eyes, skin, and clothing.
Minimize dust generation and accumulation.
Use only with adequate ventilation.
Wash thoroughly after handling.

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FIRST AID: If inhaled, move to fresh air. Wash off with soap and water. Get medical attention if symptoms occur.

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, Carbon dioxide (CO₂), Dry chemical.

IN CASE OF SPILL: Shovel into suitable container for disposal. Avoid dust formation. Clean surface thoroughly to remove residual contamination.

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-1, F-1, C-2T