

ILFORD PHOTO

HARMAN technology Ltd

SAFETY DATA SHEET

Ilfotec DD Starter

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

1. Identification

Product identifier

Product name Ilfotec DD Starter

Product number 1918674

Internal identification 10016

Container size 1 Liter

Recommended use of the chemical and restrictions on use

Application Developer Starter Solution

Details of the supplier of the safety data sheet

Supplier

Distributor

USA: Robert Distributors, 220 East Saint Clair St, Indianapolis, IN 46204 Tel:
877-281-6405

Contact Person

Contact Distributor: sales@robertsdistributors.com

Emergency telephone number

Emergency telephone USA/Canada: For medical emergency, call 1 800 842 9660 (Product Misuse).

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

Label elements

Hazard statements NC Not Classified

Precautionary statements P102 Keep out of reach of children.
P280 Wear protective gloves, eye and face protection.
P501 Dispose of contents/ container in accordance with local regulations.

Supplemental label information

Contact with acids liberates toxic gas

Other hazards

No information available.

3. Composition/information on ingredients

Mixtures

Ilfotec DD Starter

Sodium Bromide	10-30%
CAS number: 7647-15-6	
Classification	
Not Classified	
SODIUM BISULPHITE%	<1%
CAS number: 7631-90-5	
Classification	
Acute Tox. 4 - H302	

The full text for all hazard statements is displayed in Section 16.

4. First-aid measures

Description of first aid measures

Inhalation	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.
Skin Contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
Eye contact	Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

Most important symptoms and effects, both acute and delayed

Inhalation	No specific symptoms known.
Ingestion	No specific symptoms known.
Skin contact	No specific symptoms known.
Eye contact	May cause temporary eye irritation.

Indication of immediate medical attention and special treatment needed

Notes for the doctor	No specific recommendations.
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5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	The product is non-combustible. Use fire-extinguishing media suitable for the surrounding fire.
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Special hazards arising from the substance or mixture

Specific hazards	No unusual fire or explosion hazards noted.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Bromine. Hydrogen bromide (HBr). Oxides of the following substances: Sulfur. Sodium.

Advice for firefighters

Protective actions during firefighting	Avoid breathing fire gases or vapors.
Special protective equipment for firefighters	Use protective equipment appropriate for surrounding materials. Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin and eyes. Provide adequate ventilation. For personal protection, see Section 8.

Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

Methods and material for containment and cleaning up

Methods for cleaning up Wear protective gloves, eye and face protection. Wipe up with an absorbent cloth and dispose of waste safely.

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions Provide adequate ventilation. Avoid spilling. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Read and follow manufacturer's recommendations.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container. Storage advice to ensure the product remains in a useable condition throughout its specified shelf life: Store at temperatures above 0°C. Store at temperatures not exceeding 30°C.

Storage class Chemical storage.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

SODIUM BISULPHITE%

Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m³

A4

ACGIH = American Conference of Governmental Industrial Hygienists.

A4 = Not Classifiable as a Human Carcinogen.

Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. This product must not be handled in a confined space without adequate ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

Hand protection

Use protective gloves.

Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination.

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Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Clear liquid.
Color	Colorless.
Odor	May smell of sulfur dioxide
pH	pH (concentrated solution): 6 - 8
Initial boiling point and range	>100°C @ 760 mm Hg
Relative density	1.16 @ 20°C
Solubility(ies)	100% Soluble in water.
Other information	Not available.

10. Stability and reactivity

Reactivity	Generates toxic gas in contact with acid. (Sulfur dioxide.)
Stability	Stable under the prescribed storage conditions.
Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions will occur.
Conditions to avoid	Avoid excessive heat for prolonged periods of time.
Materials to avoid	Strong acids. Avoid contact with other photographic solutions and/or cleaning compounds.
Hazardous decomposition products	Thermal decomposition or combustion products may include the following substances: Bromine. Hydrogen bromide (HBr). Oxides of the following substances: Sulfur. Sodium.

11. Toxicological information

Information on toxicological effects

Toxicological effects	This chemical formulation has not been tested for health effects. Exposure effects listed are based on existing health data for the individual components that comprise the mixture.
Inhalation	Unlikely to be hazardous by inhalation because of the low vapor pressure of the product at ambient temperature. May cause respiratory system irritation.
Ingestion	No specific health hazards known. May cause discomfort if swallowed.
Skin Contact	No specific health hazards known. Prolonged and frequent contact may cause redness and irritation.
Eye contact	No specific health hazards known. May cause temporary eye irritation.
Route of entry	Skin and/or eye contact Ingestion.
Medical considerations	May aggravate existing: Skin disorders and allergies.

SODIUM BISULPHITE%

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Acute toxicity - oral

ATE oral (mg/kg) 500.0

12. Ecological Information

Toxicity The product is not expected to be hazardous to the environment.

Persistence and degradability

Persistence and degradability No data available.

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Mobility in soil

Mobility The product is soluble in water.

Other adverse effects

Other adverse effects None known.

13. Disposal considerations

Waste treatment methods

Disposal methods Used, diluted, and spent solutions may be allowed to be discharged to sanitary sewer by permit IF allowed by local regulations. Consult your local authority for advice. Waste may have to be pre-treated before discharge. Consult local authorities before discharging any waste to sewer. Do not discharge to septic system. Waste that cannot be discharged to sewer may have to be handled by a licensed hazardous waste contractor.

14. Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

UN Number

Not applicable.

UN proper shipping name

Not applicable.

Transport hazard class(es)

Not applicable.

Transport labels

No transport warning sign required.

DOT transport labels

No transport warning sign required.

Packing group

Not applicable.

Environmental hazards

Environmentally Hazardous Substance

No.

Special precautions for user

Ilfotec DD Starter

Not applicable.

DOT TIH Zone Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

US State Regulations

State Regulations Comments No information available.

Inventories

US - TSCA

Water

Sodium Bromide

SODIUM BISULPHITE%

16. Other information

General information HARMAN technology Ltd believe the information and recommendations contained herein are based on correct and factual data. However, no express or implied guarantee or warranty of any kind is made with respect to this information. Use this information only to supplement other information you have gathered and then make an independent determination about the completeness and suitability of all information to ensure the proper use and disposal of this product and the health and safety of employees and customers.

Key literature references and sources for data European Photographic Chemical Industry Code of Practice For Classification And Labelling Material Safety Data Sheet, Misc. manufacturers.

Issued by SHE.Team@harmantechnology.com

Revision date 5/31/2017

Revision 2

Supersedes date 14/05/2015

Hazard statements in full H302 Harmful if swallowed.