

ILFORD PHOTO

HARMAN technology Ltd

SAFETY DATA SHEET

Ilfotec RT Rapid Starter

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

1. Identification

Product identifier

Product name Ilfotec RT Rapid Starter

Product number 1177703

Internal identification 20516

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 Skin Irrit. 2 - H315 Eye Dam. 1 - H318

Environmental hazards Not Classified

Label elements

Hazard symbols



Signal word Danger

Hazard statements
H315 Causes skin irritation.
H318 Causes serious eye damage.

Ifotec RT Rapid Starter

Precautionary statements

P102 Keep out of reach of children.
 P280 Wear protective clothing, gloves, eye and face protection.
 P302+P352 If on skin: Wash with plenty of water.
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313 If eye irritation persists: Get medical advice/ attention.
 P501 Dispose of contents/ container in accordance with local regulations.

Contains

Acetic acid

Other hazards

No information available.

3. Composition/information on ingredients

Mixtures

Sodium Bromide	5-10%
CAS number: 7647-15-6	
Classification	
Not Classified	
Acetic acid	< 5%
CAS number: 64-19-7	
Classification	
Flam. Liq. 3 - H226	
Skin Corr. 1A - H314	
Eye Dam. 1 - H318	

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	Upper respiratory irritation.
Ingestion	No specific symptoms known.
Skin contact	Skin irritation.
Eye contact	Irritation of eyes and mucous membranes.

Indication of immediate medical attention and special treatment needed

Notes for the doctor	No specific recommendations.
-----------------------------	------------------------------

Ilfotec RT Rapid Starter

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media The product is non-combustible. Use fire-extinguishing media suitable for the surrounding fire.

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: Carbon. 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.

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. Collect and dispose of spillage as indicated in Section 13.

Methods and material for containment and cleaning up

Methods for cleaning up For waste disposal, see Section 13. Wear protective clothing, gloves, eye and face protection. Flush away spillage with plenty of water. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

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

Acetic acid

Ilfotec RT Rapid Starter

Long-term exposure limit (8-hour TWA): ACGIH 10 ppm 25 mg/m³

Short-term exposure limit (15-minute): ACGIH 15 ppm 37 mg/m³

Long-term exposure limit (8-hour TWA): OSHA 10 ppm 25 mg/m³

ACGIH = American Conference of Governmental Industrial Hygienists.

OSHA = Occupational Safety and Health Administration.

Ingredient comments No exposure limits known for ingredient(s).

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.

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. Light (or pale). Straw.
Odor	Strong. Pungent. Acetic acid.
pH	pH (concentrated solution): 2.2
Initial boiling point and range	>100°C @ 760 mm Hg
Relative density	1.064 @ 20°C
Solubility(ies)	100% Soluble in water.
Other information	Not available.

10. Stability and reactivity

Reactivity	The following materials may react with the product: Strong alkalis. Strong oxidizing agents.
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 alkalis. Strong oxidizing agents. Avoid contact with other photographic solutions and/or cleaning compounds.

Ilfotec RT Rapid Starter

Hazardous decomposition products Thermal decomposition or combustion products may include the following substances: Bromine. Hydrogen bromide (HBr). Oxides of the following substances: Carbon. 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 May cause respiratory system irritation.

Ingestion May cause discomfort if swallowed.

Skin Contact Irritating to skin.

Eye contact Irritating to eyes.

Acute and chronic health hazards Prolonged or repeated exposure may cause severe irritation.

Route of exposure Skin and/or eye contact Ingestion.

Medical Symptoms Symptoms following overexposure may include the following: Skin irritation. Symptoms following overexposure may include the following: Irritation of eyes and mucous membranes. May cause discomfort if swallowed.

Medical considerations May aggravate existing: Skin disorders and allergies. Pre-existing eye problems.

Toxicological information on ingredients.

Acetic acid

Acute and chronic health hazards Exposure; This chemical has adequate warning properties. Gas or vapor is harmful on prolonged exposure or in high concentrations. This product is corrosive. This product may cause skin and eye irritation. Prolonged contact may cause burns. Symptoms following overexposure may include the following: Irritation of eyes and mucous membranes. Repeated exposure may cause chronic eye irritation. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight. Serious damage to the lining of nose, throat and lungs. Chronic inflammation of nose, throat and bronchial tubes. Acute eczematous dermatitis, contact type erythema, edema, papules, vesicles, bullae, crusts, desquamation). Swallowing concentrated chemical may cause severe internal injury. Erosion of exposed front teeth. Keratosis (thickening of the horny layer of the skin).

Route of exposure Inhalation Ingestion. Skin and/or eye contact

Target Organs Eyes Respiratory system, lungs Skin Teeth Mucous membranes

Medical Symptoms Severe irritation, burning and tearing. Irritation, burning, lachrymation, blurred vision after liquid splash. Irritation of nose, throat and airway. Rhinitis (inflammation of the nasal mucous membranes). Upper respiratory irritation. General respiratory distress, unproductive cough. Delayed, often serious, breathing problems. May cause suffocation. Severe skin irritation. Nausea, vomiting. Diarrhea. Dizziness.

Medical considerations Chronic respiratory and obstructive airway diseases. Skin disorders and allergies. Pre-existing eye problems.

12. Ecological information

Ilfotec RT Rapid Starter

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

Ecological information on ingredients.

Acetic acid

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: >100 mg/l, Fish

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 Not 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

UN No. (International) Not applicable.

UN proper shipping name

Proper shipping name (International) Not applicable.

Transport hazard class(es)

Transport Labels (International) Not applicable.

DOT transport labels

No transport warning sign required.

Packing group

Packing group (International) Not applicable.

Environmental hazards

Environmentally Hazardous Substance

No.

Special precautions for user

Ilfotec RT Rapid 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

Acetic acid

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	3/5/2019
Revision	2
Supersedes date	14/05/2015
SDS No.	20516
Hazard statements in full	H226 Flammable liquid and vapor. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage.