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HARMAN technology Ltd

SAFETY DATA SHEET 2150XL Developer

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

1. Identification

Product identifier

Product name 2150XL Developer

Product number 1992182

Internal identification 10118

Container size 3 Liter

Recommended use of the chemical and restrictions on use

Application Developer 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 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Muta. 2 - H341 Carc. 2 - H351 Repr. 2 - H361fd

STOT RE 2 - H373

Environmental hazards Aquatic Acute 1 - H400

Label elements

Pictogram







Danger



Signal word

Hazard statements H317 May cause an allergic skin reaction.

110 17 May cause an anergie skin reaction.

H318 Causes serious eye damage.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

2150XL Developer

Precautionary statements P273 Avoid release to the environment.

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.

P405 Store locked up.

P501 Dispose of contents/ container in accordance with local regulations.

Contains HYDROQUINONE, pentasodium (carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate, 1-

Phenyl-4-methyl-4-hydroxymethyl-3-pyrazolidone

Other hazards

No information available.

3. Composition/information on ingredients

Mixtures

Sodium Sulfite 10-30%

CAS number: 7757-83-7

Classification

Not Classified

Potassium Carbonate 5-10%

CAS number: 584-08-7

Classification

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

STOT SE 3 - H335

HYDROQUINONE 1-5%

CAS number: 123-31-9
M factor (Acute) = 10

Classification

Acute Tox. 4 - H302

Eye Dam. 1 - H318

Skin Sens. 1 - H317

Muta. 2 - H341

Carc. 2 - H351

Aquatic Acute 1 - H400

pentasodium 1-5%

(carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate

CAS number: 140-01-2

Classification

Acute Tox. 4 - H332 Repr. 2 - H361fd

STOT RE 2 - H373

SODIUM HYDROXIDE <0.5%

CAS number: 1310-73-2

Classification

Skin Corr. 1A - H314 Eye Dam. 1 - H318

1-Phenyl-4-methyl-4-hydroxymethyl-3-pyrazolidone

<1%

CAS number: 13047-13-7

Classification

Acute Tox. 4 - H302 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411

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. 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

InhalationNo specific symptoms known.IngestionNo specific symptoms known.

Skin contact May cause sensitisation by skin contact.

Eye contact Irritation of eyes and mucous membranes. May cause serious eye damage.

Indication of immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations.

5. Fire-fighting measures

Extinguishing media

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

Special hazards arising from the substance or mixture

Specific hazards The product is non-combustible. No unusual fire or explosion hazards noted.

Hazardous combustion

Thermal decomposition or combustion products may include the following substances: Oxides

of: Carbon. Sulfur. Nitrogen. Sodium. Potassium.

Advice for firefighters

Protective actions during

firefighting

products

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 Wear protective clothing, gloves, eye and face protection.

Small Spillages: Flush away spillage with plenty of water.

Large Spillages: 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

HYDROQUINONE

Long-term exposure limit (8-hour TWA): OSHA 2 mg/m³ Long-term exposure limit (8-hour TWA): ACGIH 1 mg/m³

A3, DSens

SODIUM HYDROXIDE

Ceiling exposure limit: ACGIH 2 mg/m³

Long-term exposure limit (8-hour TWA): OSHA 2 mg/m³ OSHA = Occupational Safety and Health Administration.

ACGIH = American Conference of Governmental Industrial Hygienists. A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.

DSens = Dermal sensitizer.

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 to pale yellow.

Odor No characteristic odor.

pH (concentrated solution): 10.55

Initial boiling point and range >100°C @ 760 mm Hg

Relative density 1.235 @ 20°C

Solubility(ies) 100% Soluble in water.

Other information Not available.

10. Stability and reactivity

Reactivity See the other subsections of this section for further details.

Stability Stable under the prescribed storage conditions. No particular stability concerns.

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. Avoid contact with acids.

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: Oxides

of: Carbon. Sulfur. Nitrogen. Potassium. 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.

Acute toxicity - oral

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ATE oral (mg/kg) 12,216.97

Acute toxicity - inhalation

ATE inhalation (gases ppm) 296,970.9

ATE inhalation (vapours mg/l) 725.93

ATE inhalation (dusts/mists

mg/l)

98.99

Germ cell mutagenicity

Genotoxicity - in vitro The product contains a substance that is classified as: Suspected of causing genetic defects.

Carcinogenicity

Carcinogenicity The product contains a substance that is classified as: Suspected of causing cancer.

Reproductive toxicity

Reproductive toxicity -

unborn child.

development

Specific target organ toxicity - repeated exposure

STOT - repeated exposure The product contains a substance that is classified as: May cause damage to organs through

prolonged or repeated exposure if inhaled.

Inhalation May cause respiratory system irritation.

Ingestion May cause discomfort if swallowed.

Skin Contact Irritating to skin. May cause sensitisation by skin contact. May cause allergic contact eczema.

Eye contact Irritation of eyes and mucous membranes. Repeated exposure may cause chronic eye

irritation. May cause serious eye damage.

Acute and chronic health

hazards

Prolonged or repeated exposure may cause severe irritation. May cause skin

irritation/eczema. May cause sensitisation by skin contact. Irritating to eyes. Vapor or spray in the eyes may cause irritation and smarting. May cause allergy. May cause hypersensitivity.

The product contains a substance that is classified as: Suspected of damaging fertility or the

Route of entry Skin and/or eye contact Ingestion.

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

HYDROQUINONE

Acute toxicity - oral

Acute toxicity oral (LD₅o

375.0

mg/kg)

Species Rat

ATE oral (mg/kg) 375.0

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

pentasodium (carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate

Acute toxicity - inhalation

ATE inhalation (gases

4.500.0

ppm)

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ATE inhalation (vapours

mg/l)

11.0

ATE inhalation

1.5

(dusts/mists mg/l)

1-Phenyl-4-methyl-4-hydroxymethyl-3-pyrazolidone

Acute toxicity - oral

Acute toxicity oral (LD50

566.0

mg/kg)

Species Rat

ATE oral (mg/kg) 566.0

12. Ecological Information

Toxicity The product contains a substance which is very toxic to aquatic organisms.

HYDROQUINONE

Acute aquatic toxicity

LE(C)₅₀ $0.01 < L(E)C50 \le 0.1$

M factor (Acute) 10

Acute toxicity - fish LC₅₀, 96 hours: 0.10-0.18 (Fathead Minnow) mg/l, Fish

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 0.05 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

IC₅₀, 72 hours: 1.0 mg/l, Algae

pentasodium (carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate

Acute toxicity - fish LC₅₀, 96 hours: >1000 (lepomis macrochirus) mg/l, Fish

Acute toxicity - aquatic

invertebrates

EC₅o, 48 hours: >500 (daphnia magna) mg/l, Daphnia magna

1-Phenyl-4-methyl-4-hydroxymethyl-3-pyrazolidone

Acute toxicity - fish LC₅o, 96 hours: 32 (Rainbow Trout) mg/l, Fish

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 1.7 mg/l, Daphnia magna

Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

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 handled by a licensed hazardous waste contractor.

14. Transport information

General Exceptions relating to marine pollutants in small packages apply to this product, so that it is

not required to be labelled or transported in accordance with dangerous goods regulations.

See 49CFR 171.4 (c), IATA SP A197, and IMDG 2.10.2.7.

UN Number

UN No. (TDG) 3082 UN No. (IMDG) 3082

UN No. (ICAO) 3082

UN No. (DOT) UN3082

UN proper shipping name

Proper shipping name (TDG) UN3082, Environmentally hazardous substance, liquid, n.o.s. (contains hydroquinone).

Proper shipping name (IMDG) UN3082, Environmentally hazardous substance, liquid, n.o.s. (contains hydroquinone).

Proper shipping name (ICAO) UN3082, Environmentally hazardous substance, liquid, n.o.s. (contains hydroquinone).

Proper shipping name (DOT) ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (CONTAINS

HYDROQUINONE, 1-Phenyl-4-methyl-4-hydroxymethyl-3-pyrazolidone)

Transport hazard class(es)

DOT hazard class 9

DOT hazard label 9

TDG class 9 (M6)

TDG label(s) 9

IMDG Class 9

ICAO class/division 9

Transport labels



DOT transport labels



Packing group

TDG Packing Group III

IMDG packing group III

ICAO packing group

DOT packing group

Environmental hazards

Environmentally Hazardous Substance



Special precautions for user

EmS F-A, S-F

DOT reportable quantity RQ: Sodium hydroxide (217013.8889 lbs), RQ: Hydroquinone (3257.8596 lbs)

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

15. Regulatory information

US State Regulations

State Regulations Comments No information available.

Inventories

US - TSCA

Water

Sodium Sulfite

Potassium Carbonate

HYDROQUINONE

pentasodium (carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate

Sodium Bromide

SODIUM HYDROXIDE

1-Phenyl-4-methyl-4-hydroxymethyl-3-pyrazolidone

3,3'-dithiobis(3-phenylpropionic) acid

4-Sulphophenyl Thiosemicarbazide (K Salt)

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.

2150XL Developer

Key literature references and

sources for data

European Photographic Chemical Industry Code of Practice For Classification And Labelling Material Safety Data Sheet, Misc. manufacturers. Dangerous Properties of Industrial

Chemicals, 6.edition, N.Sax, 1984.

Issued by SHE.Team@harmantechnology.com

11/2/2017

Revision date

2

Revision

14/05/2015

Supersedes date

H302 Harmful if swallowed.

Hazard statements in full

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.