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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Oxidizer 600 OX Tritium

Product number : 461-073 Brand : Hidex

REACH NO. : A registration number is not available for this mixture. All the substances used within the mixture

are either; Pre-REACH registered, fully REACH Registered, exempt from registration or the annual

tonnage does not require registration.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Sector of Use: SU24 Scientific Research and Development. Not for consumer use.

Application of the substance / the mixture: Liquid Scintillation Cocktail

Unique Formula Identifier Code: R6X5-7AN6-W10J-7GMQ

1.3 Details of the supplier of the safety data sheet

Supplier : Hidex Chemicals Oy

Address : Lemminkäisenkatu 62, FIN-20520, Turku, Finland

Telephone : +358 10 843 5570
Website : www.hidex.com
E-mail address : chemicals@hidex.com

1.4 Emergency telephone numbers

Call your local poison centre quoting the Unique Formula Identifier Code given in section 1.1.

Poison Centres

| Country | Language | European Poison Centre | Phone | Website |
|---------|-------------------------------|---|--|--|
| Belgium | French | Centre Antipoisons | 070 245 245 (free, 24/7) | https://www.centreantipoisons.be |
| | Dutch | Antigif centrum | 070 245 245 (free, 24/7) | http://www.antigifcentrum.be |
| Finland | Finnish Swedish English | Helsinki University Hospital– Poison Information Centre | 0800 147 111 (free, 24/7) 09 471 977 (charged) | https://www.hus.fi/en/potilaalle/sairaalat-ja- toimipisteet/myrkytystietokeskus |
| France | French English | Service national d'assistance reglementaire REACH | + 33 (0) 1 45 42 59 59 (free, 24/7) This number takes you through to local poison centre numbers for the different regions | https://reach-info.ineris.fr/Numero_orfila |
| Germany | German | Local Poison Centres: | | |
| | English | Berlin | +49 (0) 30 19240 | https://qiftnotruf.charite.de |
| | | Bonn | +49 (0) 228 19240 | http://www.gizbonn.de |
| | | Erfurt | +49 (0) 361 730730 | https://www.gqiz-erfurt.de/home.html |
| | | Freiburg | +49 (0) 761 19240 | https://www.uniklinik-freiburg.de/giftberatung.html |
| | | Gottingen | +49 (0) 551 19240 | https://www.giz-nord.de/cms/index.php |
| | | Homburg/Saer | +49 (0) 6841 19240 | http://www.uniklinikum- saarland.de/de/einrichtungen/kliniken_institute/ |
| | | Mainz | +49 (0) 6131 19240 | http://www.giftinfo.uni-mainz.de |
| | | Munchen | +49 (0) 89 19240 | http://www.toxinfo.med.tum.de |

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| Country | Language | European Poison Centre | Phone | Website |
|-------------|----------------------------|--|--|--|
| Hungary | Hungarian | Health toxicology information service | +36 80 201 199 (free 24/7 - only from Hungary) +36 1 476 6464 (24/7, can be called for a normal fee from abroad) | https://www.nnk.gov.hu/index.php/kemiai-biztonsagi-es- kompetens-hatosagi-fo/egeszsegugyi-toxikologiai-tajekoztato- szolgalat |
| Italy | Italian | Centro Antivelni firenze | +39 055 794 7819 (24/7) | Presentazione (antiveleni.altervista.org) |
| Ireland | English | Poisons information Centre of Ireland | +353 1 809 21 66 (8am- 10pm / 7 days a week) +353 1 809 25 66 (24/7, healthcare profession only) | https://www.poisons.ie/ |
| Lithuania | Lithuanian English | Poison Information Bureau part of The State Medicines Control Agency | +370 8-5 236 20 52 (free, 24/7) | http://www.apsinuodijau.lt/pirma-pagalba/ |
| Netherlands | French English Dutch | National Poisons Information Center / University Medical Center Utrecht | +31 88 75 585 61 | https://www.umcutrecht.nl/nl |
| Poland | Polish | National Poison Infor | mation Centres: | |
| | | Krakow | +48 12 411 99 99 | http://www.oit.cm.uj.edu.pl |
| | | Gdansk | +48 58 682 04 04 | http://www.pctox.pl/new/ |
| | | Poznań | +48 61 847 69 46 | N/A |
| | | Warszawa | +48 607 218 174 | N/A |
| Romania | Romanian | National Institute for F | Public Health, Ministry of Health | |
| | | CNMRMC | +40 213 183 606 | N/A |
| | | Spitalul Clinic de Urgenta Bucuresti | +40 215 992 300 int. 291 | N/A |
| | | Spitalul Clinic Judetean de Urgenta Targu Mures | +40 265.212.111 | N/A |
| Slovakia | Slovak | National Toxicological Information Centre | +421 2 5477 4166 | http://www.ntic.sk/ntic_en.php |
| Spain | Spanish | National Emergency Telephone Number of Spanish Poison Centre | +34 91 562 04 20 | https://www.miteco.gob.es/es/calidad-y-evaluacion- ambiental/temas/productos-quimicos/portal-reach- clp/novedades/detalle_novedades.aspx?id=tcm:30-193752-16 |
| Sweden | Swedish English | Swedish Poison Information Centre | 112 (24/7) Emergency 010-456 6700 Less urgent | In English - Giftinformationscentralen |
| UK | English | National Poisons Information Service NHS | +44 (0) 344 892 0111 - Healthcare Professionals ONLY 111 - General public | https://www.npis.org/Industrynotify.html https://www.nhs.uk/nhs-services/ |



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SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

| Flammable liquid and vapour | Category 3 | H226 |
|---|------------|------|
| Eye damage | Category 1 | H318 |
| Skin Irritation | Category 2 | H315 |
| Acute Toxicity - Inhalation | Category 4 | H332 |
| Specific Target Organ Toxicity - Single Exposure (Respiratory) | Category 3 | H335 |
| Hazardous to aquatic environment | Chronic 2 | H411 |
| For the full text of the H-Statements mentioned here - see section 16 | | |

2.2 Label elements

Classification according to CLP Regulation (EC) No 1272/2008

Hazard pictograms









Signal word Danger

Contains: 1,2,4 -Trimethylbenzene and Alcohols, secondary C11-15, ethoxylated

Hazard statements:

| ia=ai a otatoiiioiitoi | |
|------------------------|----------------------------------|
| H226 | Flammable liquid and vapour |
| H315 | Causes skin irritation |
| H318 | Causes serious eye damage |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |

H411 Toxic to aquatic life with long lasting effects

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking P273 Avoid release to the environment

P280 Wear protective gloves/protective clothing/eye protection/face protection

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower

P304+ P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses

if present and easy to do - continue rinsing

2.3 Other hazards

Results of PBT and vPvB assessment:

This product does not contain any substances that meet the criteria for PBT or vPvB

Endocrine disrupting properties:

This product does not contain any substances that have endocrine disrupting properties.

SECTION 3: Composition / Information on Ingredients

3.1 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with non-hazardous additions.

Hazardous components:



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| 1,2,4 -Trimethylbenzene | | | | | |
|-----------------------------------|----------------------------------|------|--------|-----------|-----|
| CAS #: 95-63-6 | Flammable liquid category 3 | H226 | 50-80% | ATE: | N/A |
| EC #: 202-436-9 | Skin irritation category 2 | H315 | | M Factor: | N/A |
| REACH: 01-21194-72135-42-XXXX | Eye irritation category 2 | H319 | | SCL: | N/A |
| | Acute toxicity 4 | H332 | | | |
| | Specific Target Organ Toxicity - | H335 | | | |
| | Single Exposure | | | | |
| | Chronic aquatic 2 | H411 | | | |
| Docusate sodium | | | | | |
| CAS #: 577-11-7 | Eye damage category 1 | H318 | 1-5% | ATE: | N/A |
| EC NUMBER: 209-406-4 | Skin irritation category 2 | H315 | | M Factor: | N/A |
| REACH: Exempt | | | | SCL: | N/A |
| Alcohols, secondary C11-15, ethox | ylated | | | | |
| CAS #: 68131-40-8 | Eye damage category 1 | H318 | 10-20% | ATE: | N/A |
| EC NUMBER: 614-295-4 | Skin irritation category 2 | H315 | | M Factor: | N/A |
| REACH: Exempt | | | | SCL: | N/A |
| Phosphate Ester | | | | | |
| CAS #: 39464-70-5 | Skin irritation category 2 | H315 | 1-5% | ATE: | N/A |
| EC NUMBER: 609-691-9 | Eye damage category 1 | H318 | | M Factor: | N/A |
| REACH: Exempt | | | | SCL: | N/A |
| Phosphate Ester | | | | | |
| CAS #: 12645-31-7 | Skin corrosion 1B | H314 | 1-5% | ATE: | N/A |
| EC #:235-741-0 | | | | M Factor: | N/A |
| REACH: 01-2119896587-13-xxxx | | | | SCL: | N/A |

For the full text of the H-Statements - see section 16 & for further information on Regulations - see section 15.1.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

General information: Consult a doctor. Show this safety data sheet to the doctor in attendance.

If inhaled: Move person into fresh air.

In case of contact with skin contact: Wash off with plenty of water.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a

doctor. Protect unharmed eye.

If swallowed: Do NOT induce vomiting. Never give anything by mouth to an unconscious

person. Rinse mouth with water. Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed: No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed: No further information available.

SECTION 5: Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing agents: Carbon Dioxide, dry powder or water spray. Fight larger fires with water spray

or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture: No further relevant information available.

5.3 Advice for fire-fighters

Special Protective equipment: Wear self-contained respiratory protective device and a fully protective suit.

Further Information: Cool closed containers exposed to fire with water spray. Contaminated water

must not be discharged into drains.



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SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment. Keep unprotected persons away.

Special precautions: Particular danger of slipping on leaked/spilled product.

6.2 Environmental precautions: Inform respective authorities in case of seepage into water course.

Do not allow to enter surface or ground water.

Dilute with plenty of water.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Absorb with liquid binding material (sand, universal binders, sawdust).

Use neutralising agent Ensure adequate ventilation Pick up mechanically

Dispose in according to local regulations (see section 13).

6.4 Reference to other sections See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Advice on safe handling: Wear personal protective equipment.

Avoid contact with skin and eyes.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about fire and explosion protection: Keep away from sources of ignition and do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container tightly sealed. Protect from exposure

to direct sunlight and store away from heat.

7.3 Specific end use(s): Advised temperature of use: 15-25°C

Uses identified and documented.

SECTION 8: Exposure Controls / Personal Protection

8.1 Control parameters

Components with workplace control parameters:

| | | | Limit values | | | |
|-------------------------|------------|---------|--------------|-------|--------|------|
| | | | Eight | hours | Short- | term |
| Substance | CAS number | Country | mg/m³ | ppm | mg/m³ | ppm |
| 1,2,4 -Trimethylbenzene | 95-63-6 | UK | 25 | 125 | | |
| | | Austria | 20 | 100 | | |
| | | Belgium | 20 | 100 | | |
| | | EU | 20 | 100 | | |
| | | Finland | 20 | 100 | | |



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| France | | | | |
|-------------|----|-----|----|-----|
| Germany | 20 | 100 | 40 | 200 |
| Hungary | | 100 | | |
| Italy | 20 | 100 | | |
| Lithuania | | | | |
| Netherlands | | 100 | | 200 |
| Poland | | 100 | | 170 |
| Romania | | | | |
| Slovakia | | | | |
| Spain | 20 | 100 | | |
| Sweden | | | | |

8.2 Exposure controls

General protective and hygienic measures:

Handle in accordance with good industrial hygiene and safety practices. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eves and skin. Do not eat, drink, smoke or sniff while working.

Personal Protective Equipment:

Wear suitable gloves, body and eye protection and a face shield.

Respiratory protection:

No personal respiratory protective equipment normally required.

Skin protection:

Handle with protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Splash contact

Material: Nitrile-rubber, Minimum layer thickness: 0.4 mm, Break through time: 30 min. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye / face protection:

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH(Us) or EN 166(EU).

Body protection:

Protective work clothing - complete suit protecting against chemicals. The type of protective clothing must be selected according to the concentration and amount of dangerous substance at the workplace.

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product

enter drains.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid Form: Liquid

Colour: According to specification

Odour: Characteristic **Odour threshold:** Not determined

pH-value: ~2.6

Melting point/Melting range: Not determined

Boiling point/Boiling range: 168°C



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Flash point: 48°C

Flammability (solid, gaseous):
Ignition temperature:
Self-igniting:
Not applicable.
383°C determined.
Product is not self igniting

Danger of explosion: Product is not explosive. However, formation of explosive air / vapour

mixtures is possible.

Explosion limits:

Lower: 1.1 Vol% **Upper:** 7 Vol %

Vapour pressure:5mm Hg@20°CDensity at 20 °C:0.9 gm/cm³Relative densityNot determinedVapour densityNot determinedEvaporation rateNot determined

Solubility in / Miscibility with water: <10ppm
Particle size NA

Partition coefficient (n-octanol/water):Not determinedViscosity:Not determinedDynamic:Not determinedKinematic:Not determined

9.2 Other informationNo further relevant information available

Information about physical hazard class:

Other Safety Characteristics:

No additional information

No additional information

SECTION 10: Stability and Reactivity

10.1 Reactivity: No data available.

10.2 Chemical stability Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions: No decomposition if used according to specifications.

Reacts with strong oxidising agents.

10.4 Conditions to avoidToxic fumes may be released if heated above decomposition point.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: Carbon monoxide, carbon dioxide and oxides of sulphur and

phosphorus

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity: LC/LD50 Values relevant for classification:

| Substance | CAS Number | LD/LC50 |
|---|------------|---|
| 1,2,4 - Trimethylbenzene | 95-63-6 | ORAL 10,2 mg/kg (rat) |
| Alcohols, secondary C11-15, ethoxylated | 68131-40-8 | >3000 mg/kg (rat) ORAL estimate >2000 mg/kg (rat) DERMAL estimate |
| Docusate sodium | 577-11-7 | >3,100 mg/kg (rat) ORAL >10,000 mg/kg (rabbit) DERMAL >20.0 mg/l/4hour (rat) INHALATION |
| Phosphate Ester | 39464-70-5 | 5,000 mg/kg (rat) ORAL |

Skin corrosion / irritation: Causes skin irritation.

Serious eye damage / eye irritation: Causes serious eye damage – strong caustic effect.

Respiratory sensitisation: May cause respiratory irritation.



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Germ cell mutagenicity: Based on available data, classification criteria not met.

Carcinogenicity: Based on available data, classification criteria not met.

Reproductive toxicity: Based on available data, classification criteria not met.

Specific Target Organ Toxicity - Single Exposure: May cause respiratory irritation.

May cause drowsiness or dizziness.

Specific Target Organ Toxicity - Repeated Exposure: Based on available data, classification criteria not met.

Aspiration hazard: Based on available data, classification criteria not met.

Additional information: The toxicological properties have not been fully investigated.

SECTION 12: Ecological Information

12.1 Toxicity

Aquatic toxicity:

| Substance | CAS Number | LC50 / 96 hours |
|--------------------------|------------|--|
| 1,2,4 - Trimethylbenzene | 95-63-6 | Pimephales promelas (fathead minnoe) 7.72 mg/l |

12.2 Persistence and degradability: No further relevant information available.

12.3 Bio accumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

12.5 Results of PBT and vPvB Assessment: This mixture does not meet the criteria for PBT or vPvB

12.6 Endocrine disrupting properties: This product does not contain any substances that have endocrine

disrupting properties.

Additional ecological information:

General notes: Toxic to aquatic life with long lasting effects.

Discharge into the environment must be avoided.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Product: Waste product must be disposed of according to local authority

recommendations, e.g. convey to a suitable incinerator.

Disposal must be made according to official regulations. Uncleaned **Uncleaned Packaging:**

packaging may be classifiable as hazardous waste.

SECTION 14: Transport Information

14.1 UN-Number

ADR, IMDG, IATA UN1993

14.2 UN proper shipping name -

ADR 1993 FLAMMABLE LIQUID, N.O.S. (1, 2, 4-Trimethylbenzene),

ENVIRONMENTALLY HAZARDOUS



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IMDG FLAMMABLE LIQUID, N.O.S. (1, 2, 4-Trimethylbenzene) MARINE

POLLUTANT

IATA FLAMMABLE LIQUID, N.O.S. (1, 2, 4-Trimethylbenzene)

14.3 Transport hazard class (es)

ADR, IMDG, IATA

Class 3 Flammable liquid

Label 3

14.4 Packing group -

ADR, IMDG, IATA III

14.5 Environmental hazards: Product contains environmentally hazardous substance:

1, 2, 4-Trimethylbenzene

Marine pollutant: Ye

Special marking (ADR): Symbol (fish and tree)

14.6 Special precautions for userWarning: Flammable liquids.

Danger code (Kemler): 30

EMS Number: F-E,S-E

14.7 Maritime transport in bulk according to IMO instruments

Limited quantities (LQ) 5L

Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30ml
Maximum net quantity per outer packaging: 1000ml

Transport category 3
Tunnel restriction code D/E
Limited quantities (LQ) 5L
Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30ml
Maximum net quantity per outer packaging: 1000ml

UN "Model Regulation": UN1993, FLAMMABLE LIQUID, N.O.S. (1, 2, 4-Trimethylbenzene),

ENVIRONMENTALLY HAZARDOUS, 3, III

SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture No further information available.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other Information

Hazard statements

H226

| 11220 | riaminable liquia and vapour |
|-------|--|
| H314 | Causes severe skin burns and eye damage; |
| H315 | Causes skin irritation |

Flammable liquid and vanour

H318 Causes serious eye damage H319 Causes serious eye irritation

H332 Harmful if inhaled

H335 May cause respiratory irritation

H411 Toxic to aquatic life with long lasting effects

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking

P273 Avoid release to the environment



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P280 Wear protective gloves/protective clothing/eye protection/face protection

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower

P304+ P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if

present and easy to do - continue rinsing

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the

International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

NIOSH: National Institute of Occupational Safety and Health LL50: Loading rate of test substance resulting in 50% mortality)

LD50: Lethal dose, 50 percent LC50: Lethal Concentration, 50 percent

ATE: Acute Toxicity Estimate

M Factor: Multiplying factor for substances that are highly toxic to aquatic environment

SCL: Specific Concentration Limit: a concentration limit that is specific to a substance and takes precedence over generic concentration limit or cut-off