Material Safety Data Sheet

Canada English

Catalogue Number

Synonym

Section 1. Chemical product and company identification

Product name Stray Light Test Kit; part of 'UV Test Kit, 280 nm,

10 mm'

18-1129-69

propan-2-one; propanone; 2-Propanone; Ketone propane; Dimethyl ketone; 2-propanone; β-ketonepropane; acetonum; dimethylketone; methyl ketone; propanone; pyroacetic acid; pyroacetic ether;

Material uses Industrial applications: Analytical chemistry. Research.

Other non-specified industry: CHEMICALS (METHYL ISOBUTYL KETONE, METHYLISOBUTYL CARBINOL; METHYL METHACRYLATE; BISPHENOL-A); PAINT, VARNISH AND LACQUER SOLVENT; CELLULOSE ACETATE, ESPECIALLY AS SPINNING SOLVENT; TO CLEAN AND DRY PARTS OF PRECISION EQUIPMENT; SOLVENT FOR

POTASSIUM IODIDE AND PERMANGANATE; DELUSTERANT FOR CELLULOSE ACETATE FIBERS; SPECIFICATION TESTING OF VULCANIZED RUBBER PRODUCTS.

Product type Liquid.
Validation date 4 May 2015
Print date 04 May 2015

Supplier GE Healthcare UK Ltd

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Buckinghamshire HP7 9NA

England

+44 0870 606 1921

<u>In case of emergency</u> US ChemTrec (US) 1-800-424-9300

Canada ChemTrec (US) 1-703-527-3887

Hazards identification

Physical stateLiquid.ColorColorless.OdorFragrance-like.Sianal wordDANGER!

Hazard statements EXTREMELY FLAMMABLE LIQUID AND VAPOR. FLAMMABLE. VAPOR MAY CAUSE FLASH FIRE. CAUSES EYE

IRRITATION. CAN CAUSE TARGET ORGAN DAMAGE.

Precautionary measures To not breathe vapor or mist. Use only with adequate ventilation. Do not eat, drink or smoke when using

this product. Avoid contact with eyes. Keep away from heat, sparks and flame. Keep container tightly

closed. Wash thoroughly after handling.

Routes of entry Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

EyesIrritating to eyes.SkinMay cause skin irritation.

InhalationNo known significant effects or critical hazards.IngestionNo known significant effects or critical hazards.

Potential chronic health effects

Chronic effects Can cause target organ damage.

CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.Target organs₹auses damage to the following organs: kidneys, liver.

May cause damage to the following organs: blood, upper respiratory tract, skin, eyes, central nervous

system (CNS), eye, lens or cornea.



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Inhalation No specific data.
Ingestion No specific data.
Skin No specific data.

Eyes Adverse symptoms may include the following:

pain or irritation watering redness

Medical conditions aggravated by over-exposure

Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be

aggravated by over-exposure to this product.

See toxicological information (Section 11)

3. Composition/information on ingredients

Name CAS number % by weight

acetone 67-64-1 100 -

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4. First aid measures

Eye contact Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15

minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing

contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Get medical attention immediately.

Inhalation Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs,

provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie,

belt or waistband. Get medical attention immediately.

Ingestion Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person. Get medical attention immediately.

Protection of first-aidersNo action shall be taken involving any personal risk or without suitable training. It may be dangerous to

the person providing aid to give mouth-to-mouth resuscitation.

Section 5. Fire-fighting measures

Flammability of the product Extremely flammable liquid. In a fire or if heated, a pressure increase will occur and the container may

burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of

ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Extinguishing media

Suitable Use dry chemical, CO₂, water spray (fog) or foam.

Not suitable Do not use water jet.

Special exposure hazards Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No

action shall be taken involving any personal risk or without suitable training. Move containers from fire

area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Decomposition products may include the following materials: carbon dioxide carbon monoxide

Special protective equipment for

Hazardous combustion products

fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA)

with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautionsNo action shall be taken involving any personal risk or without suitable training. Evacuate surrounding

areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on

appropriate personal protective equipment (see Section 8).

Environmental precautions Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform

the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof

equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Small spill Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof

equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.



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Section 7. Handling and storage

Handling

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosionproof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/ m³	Other	ppm	mg/ m³	Other	ppm	mg/ m³	Other	Notations
acetone	US ACGIH 6/2013 AB 4/2009	500 500	1188 1200	-	750 750	1782 1800	-	-	-	-	
	BC 7/2013	250	-	-	500	-	-	-	-	-	
	ON 1/2013 OC 12/2012	500 500	1188 1190	-	750 1000	1782 2380	-	-	-	-	

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Engineering measures

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Hygiene megsures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Respiratory

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands

Themical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Eyes

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical

Skin

Fersonal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable

Other protection Personal protective equipment Not available Not available

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(Pictograms)



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Section 9. Physical and chemical properties

Physical state Liquid.

Flash point Closed cup: -18.1°C (-0.58°F)

Burning time Mot applicable.

Burning rate Not applicable.

Auto-ignition temperature 464.9°C (868.8°F)

Flammable limits Lower: 2% Upper: 13%

Color Colorless.

OdorFragrance-like.Molecular weight\$8.09 g/moleMolecular formula€₃H₀OBoiling/condensation point56°C (132.8°F)Melting/freezing point-94°C (-137.2°F)

Critical temperature 234.9°C (454.8°F) Relative density 0.791

Vapor pressure §3.3 kPa (400 mm Hg) [room temperature]

 $\begin{array}{lll} \mbox{Vapor density} & 2 \ [\mbox{Air} = 1] \\ \mbox{Volatility} & 100\% \ (\mbox{v/v}) \\ \mbox{Odor threshold} & 62 \ \mbox{to} \ 130 \ \mbox{ppm} \\ \mbox{Evaporation rate} & 6.06 \ (\mbox{butyl accetate} = 1) \\ \end{array}$

SADT Not available.

Solubility Easily soluble in the following materials: cold water, hot water and acetone.

Aerosol product

Section 10. Stability and reactivity

Chemical stability The product is stable.

Incompatible materials Highly reactive or incompatible with the following materials:

oxidizing materials

Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will not occur.

Section 11. Toxicological information

Acute toxicity

Product/ingredient name Result Species Dose Exposure

Cocetone LD50 Oral Rat 5800 mg/kg -

Conclusion/Summary Not available.

Chronic toxicity

Not available.

Conclusion/Summary Not available.

Irritation/Corrosion

Not available.

Conclusion/Summary Not available.

<u>Sensitizer</u> Not available.

Conclusion/Summary Not available.

Carcinogenicity

Not available.

Conclusion/Summary Not available.

Classification

Product/ingredient nameACGIHIARCEPANIOSHNTPOSHAacetoneA4-D---

Mutagenicity

Not available.



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Exposure

96 hours

48 hours

48 hours

96 hours

96 hours

21 days

21 days

42 days

Conclusion/Summary

Teratogenicity

Not available.

Conclusion/Summary

Not available.

Not available.

Reproductive toxicity

Not available.

Conclusion/SummaryNot available.Synergistic productsNot available.

Section 12. Ecological information

Environmental effects

Readily biodegradable This product shows a low bioaccumulation potential.

Result

Species

Algae - Ulva pertusa

Algae - Ulva pertusa

Crustaceans - Gammarus pulex

(Fledgling, Hatchling, Weanling)

Fish - Pimephales promelas - Juvenile

Daphnia - Daphnia magna - Neonate

Fish - Gasterosteus aculeatus - Larvae

Daphnia - Daphnia magna

Crustaceans - Daphniidae

Aquatic ecotoxicity

Product/ingredient name

acetone

Acute EC50 20.565 mg/l Marine water Acute LC50 6000000 μg/l Fresh water Acute LC50 10000 μg/l Fresh water Acute LC50 100 mg/l Fresh water

Chronic NOEC 4.95 mg/l Marine water Chronic NOEC 0.016 ml/L Fresh water Chronic NOEC 0.1 ml/L Fresh water Chronic NOEC 5 µg/l Marine water

Not available.

Conclusion/Summary

Persistence/degradability

Partition coefficient: n-octanol/

water

Bioconcentration factor

Other adverse effects

-27

₹10 No known significant effects or critical hazards.

Section 13. Disposal considerations

Waste disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

RCRA classification

Not available.

United States - RCRA Toxic hazardous waste "U" List

 Ingredient
 CAS #
 Status
 Reference number

 Kcetone (I); 2-Propanone (I)
 67-64-1
 Listed
 U002

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

Regulatory information UN number Proper shipping name Classes PG* Label Additional information



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DOT Classification UN1090 5000 lbs / 2270 kg [758.12 gal / 2869.8 L) Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. **Limited quantity** Packaging instruction Passenger aircraft
Quantity limitation: 5 L Carao aircraft Quantity limitation: 60 L **Special provisions ACETONE TDG Classification** UN1090 3 Ш **Mexico Classification** UN1090 3 П Acetone **ACETONE** Mazard identification **ADR/RID Class** UN1090 3 П Limited quantity LQ4 UN1090 ACETONE (ACETONE SOLUTIONS) **IMDG Class** Ш 3 Passenger and Cargo
Aircraft Quantity limitation: **ACETONE IATA-DGR Class** UN1090 3 Ш Cargo Aircraft Only Quantity limitation: 60 L Limited Quantities -Passenger Aircraft Quantity limitation: 1 L

PG*: Packing group

Section 15. Regulatory information

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS (Canada) Class B-2: Flammable liquid

Class D-2B: Material causing other toxic effects (Toxic).

Canadian lists

Canadian NPRI This material is listed. This material is listed. **CEPA Toxic substances**

This material is listed or exempted. Canada inventory

International regulations

International lists Australia inventory (AICS): This material is listed or exempted. China inventory (IECSC): This material is listed or exempted.

Japan inventory: This material is listed or exempted. Korea inventory: This material is listed or exempted.

Malaysia Inventory (EHS Register): This material is listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): This material is listed or exempted.

Philippines inventory (PICCS): This material is listed or exempted.

Taiwan inventory (CSNN): Not determined.

Chemical Weapons Convention List Schedule I Chemicals

Not listed

Chemical Weapons Convention List Schedule II Chemicals

Not listed



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Chemical Weapons Convention

List Schedule III Chemicals

Section 16. Other information

The customer is responsible for determining the PPE code for this material.



Indicates information that has changed from previously issued version.

History

Date of printing04 May 2015Date of previous issue25 August 2010

Date of issue 04 May 2015 **Version** 4.2

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



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