

Printing date 03/07/2023

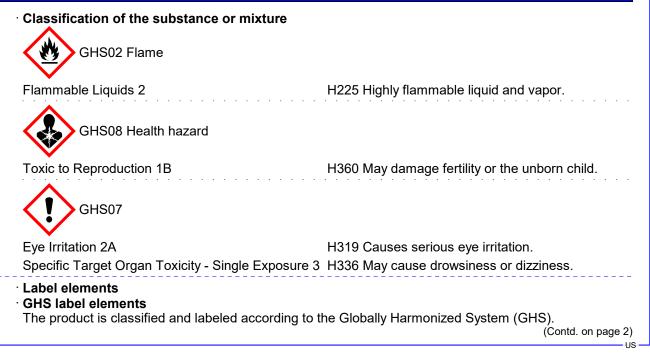
Revision date 03/07/2023

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## **1** Identification

- · Product identifier
- · Trade name: 15(S)-15-methyl Prostaglandin F2α
- · Article number: 16743
- **Application of the substance / the mixture** This product is for research use - Not for human or veterinary diagnostic or therapeutic use.
- · Details of the supplier of the safety data sheet
- **Manufacturer/Supplier:** Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA
- Information department: Product safety department
   Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

## 2 Hazard(s) identification



Printing date 03/07/2023

Revision date 03/07/2023

## Trade name: 15(S)-15-methyl Prostaglandin F2 $\alpha$

View       View       View         Signal word Danger         Hazard-determining components of labeling:         Methyl acetate         15(5)-15-methyl Prostaglandin F2a         Hazard statements         H225 Highly flammable liquid and vapor.         H310 Causes serious eye irritation.         H330 May damage fertility or the unborn child.         H336 May cause drowsiness or dizziness.         Precutionary statements         P201       Obtain special instructions before use.         P202       Do not handle until all safety precautions have been read and understood.         P210       Keep away from heat/sparks/open flames/hot surfaces No smoking.         P240       Ground/bond container and receiving equipment.         P241       Use explosion-proof electrical/ventilating/lighting/equipment.         P242       Use only non-sparking tools.         P243       Take precautionary measures against static discharge.         P264       Wash thoroughly after handling.         P271       Use only outdoors or in a well-ventilated area.         P280       Wear protective gloves/protective clothing/eye protection/face protection.         P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin wit water/shower.         P304+P340       Fi NHALED: Remove person to fresh air	Hazard pictogram	(Contd. from page :
Signal word Danger         Hazard-determining components of labeling: Methyl acetate         15(S)-15-methyl Prostaglandin F2α         Hazard statements         H225 Highly flammable liquid and vapor.         H319 Causes serious eye irritation.         H360 May damage fertility or the unborn child.         H336 May cause drowsiness or dizziness.         Precautionary statements         P201       Obtain special instructions before use.         P202       Do not handle until all safety precautions have been read and understood.         P210       Keep away from heat/sparks/open flames/hot surfaces No smoking.         P241       Use explosion-proof electrical/ventilating/lighting/equipment.         P242       Use only non-sparking tools.         P243       Take precautionary measures against static discharge.         P244       Wash thoroughly after handling.         P271       Use only outdoors or in a well-ventilated area.         P280       Wear protective gloves/protective clothing/eye protection/face protection.         P303+P361+P353       If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin wit water/shower.         P304+P340       IF INHALED: Remove person to fresh air and keep comfortable for breathing.         P305+P351+P338       If ne yes: Rinse cautiously with water for several minutes. Remove contact lenses, present and e		
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<ul> <li>H360 May damage fertility or the unborn child.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>Precautionary statements</li> <li>P201 Obtain special instructions before use.</li> <li>P202 Do not handle until all safety precautions have been read and understood.</li> <li>P210 Keep away from heat/sparks/open flames/hot surfaces No smoking.</li> <li>P240 Ground/bond container and receiving equipment.</li> <li>P241 Use explosion-proof electrical/ventilating/lighting/equipment.</li> <li>P242 Use only non-sparking tools.</li> <li>P243 Take precautionary measures against static discharge.</li> <li>P261 Avoid breathing dust/fume/gas/mist/vapors/spray</li> <li>P264 Wash thoroughly after handling.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P280 Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin wi water/shower.</li> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, present and easy to do. Continue rinsing.</li> <li>P308+P313 If eve irritation persists: Get medical advice/attention.</li> <li>P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.</li> <li>P403+P235 Store in a well-ventilated place. Keep cool.</li> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/internation regulations.</li> </ul>	H225 Highly flamm	able liquid and vapor.
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<ul> <li>P261 Avoid breathing dust/fume/gas/mist/vapors/spray</li> <li>P264 Wash thoroughly after handling.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P280 Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin wi water/shower.</li> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, present and easy to do. Continue rinsing.</li> <li>P308+P313 IF exposed or concerned: Get medical advice/attention.</li> <li>P312 Call a poison center/doctor if you feel unwell.</li> <li>P337+P313 If eye irritation persists: Get medical advice/attention.</li> <li>P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.</li> <li>P403+P235 Store in a well-ventilated place. Keep container tightly closed.</li> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/internation regulations.</li> <li>Classification system:</li> </ul>	P242	Use only non-sparking tools.
<ul> <li>P264 Wash thoroughly after handling.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P280 Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin wi water/shower.</li> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, present and easy to do. Continue rinsing.</li> <li>P308+P313 IF exposed or concerned: Get medical advice/attention.</li> <li>P312 Call a poison center/doctor if you feel unwell.</li> <li>P337+P313 If eye irritation persists: Get medical advice/attention.</li> <li>P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.</li> <li>P403+P235 Store in a well-ventilated place. Keep container tightly closed.</li> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/internation regulations.</li> <li>Classification system:</li> </ul>	P243	Take precautionary measures against static discharge.
<ul> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P280 Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin wire water/shower.</li> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, present and easy to do. Continue rinsing.</li> <li>P308+P313 IF exposed or concerned: Get medical advice/attention.</li> <li>P312 Call a poison center/doctor if you feel unwell.</li> <li>P337+P313 If eye irritation persists: Get medical advice/attention.</li> <li>P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.</li> <li>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</li> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/internation regulations.</li> <li>Classification system:</li> </ul>	P261	Avoid breathing dust/fume/gas/mist/vapors/spray
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	Classification ave	



Health = 2 Fire = 3 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH 2	Health = 2
	Fire = 3
REACTIVITY 0	Reactivity = 0

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#### Trade name: 15(S)-15-methyl Prostaglandin F2α

· Other hazards

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

### **3 Composition/information on ingredients**

· Chemical characterization: Mixtures

• **Description:** Mixture of the substances listed below with nonhazardous additions.

Dangerous	components
-----------	------------

Dangerous components:		
CAS: 79-20-9 RTECS: Al9100000	Methyl acetate	99.5%
CAS: 35700-23-3 RTECS: UK8021000	15(S)-15-methyl Prostaglandin F2α	0.5%

## **4 First-aid measures**

- Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- · After eve contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

## **5** Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

### 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

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<ul> <li>Reference to other sections</li> <li>See Section 7 for information on safe handling.</li> <li>See Section 8 for information on personal protection equipment.</li> <li>See Section 13 for disposal information.</li> <li>Protective Action Criteria for Chemicals</li> </ul>	(Contd. from page 3)
• PAC-1:	
79-20-9 Methyl acetate	250 ppm
PAC-2:	
79-20-9 Methyl acetate	1,700 ppm
PAC-3:	
79-20-9 Methyl acetate	10000* ppm

## 7 Handling and storage

#### · Handling:

- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
   Protect against electrostatic charges.
   Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- Storage: Store in accordance with information listed on the product insert.
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:
- Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

• Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

### 79-20-9 Methyl acetate

- PEL Long-term value: 610 mg/m<sup>3</sup>, 200 ppm
- REL Short-term value: 760 mg/m<sup>3</sup>, 250 ppm
- Long-term value: 610 mg/m<sup>3</sup>, 200 ppm
- TLV Short-term value: 250 ppm Long-term value: 200 ppm

• Additional information: The lists that were valid during the creation were used as basis.

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### Trade name: 15(S)-15-methyl Prostaglandin F2α

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- Exposure controls
- Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes and skin.
- · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. • Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

### · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

<ul> <li>Information on basic physica</li> <li>General Information</li> </ul>	i and chemical properties	
· Appearance:		
Form:	Liquid	
Color:	According to product specification	
· Odor:	Pleasant	
· Structural Formula	C21H36O5	
· Molecular Weight	368.5 g/mol	
· Odor threshold:	Not determined.	
· Formulation	A solution in methyl acetate	
· pH-value:	Not determined.	

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## Trade name: 15(S)-15-methyl Prostaglandin F2 $\alpha$

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<ul> <li>Change in condition Melting point/Melting range: Boiling point/Boiling range:</li> </ul>	-98.05 °C (-144.5 °F) 57 °C (134.6 °F)
· Flash point:	-13 °C (8.6 °F)
· Flammability (solid, gaseous):	Highly flammable.
· Auto igniting:	455 °C (851 °F)
· Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
<sup>.</sup> Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.
<ul> <li>Explosion limits: Lower: Upper:</li> </ul>	3.1 Vol % 16 Vol %
· Vapor pressure at 20 °C (68 °F):	220 hPa (165 mm Hg)
<sup>.</sup> Density at 20 °C (68 °F):	0.93 g/cm³ (7.76085 lbs/gal)
<ul> <li>Bulk density:</li> <li>Relative density</li> <li>Vapor density</li> <li>Evaporation rate</li> </ul>	1 kg/m³ Not determined. Not determined. Not determined.
<ul> <li>Solubility in / Miscibility with</li> <li>Water at 20 °C (68 °F):</li> </ul>	330 g/l
· Partition coefficient (n-octanol/wate	er): Not determined.
<ul> <li>Viscosity:</li> <li>Dynamic:</li> <li>Kinematic:</li> <li>SOLUBILITY</li> </ul>	Not determined. Not determined. 10 mM Na2CO3: >6.5 mg/ml; DMF: >100 mg/ml; DMSO: >100 mg/ml; PBS pH 7.2: >10 mg/ml; ETOH: >100 mg /m
<ul> <li>Solvent content: Organic solvents: VOC content:</li> </ul>	99.5 % 0.00 % 0.0 g/l / 0.00 lb/gal
Solids content:	0.0 %
· Other information	No further relevant information available.

## **10 Stability and reactivity**

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: strong oxidizing agents

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#### Trade name: 15(S)-15-methyl Prostaglandin F2α

· Hazardous decomposition products: carbon dioxide, carbon monoxide

### **11 Toxicological information**

· Information on toxicological effects

· Acute toxicity:

<ul> <li>LD/LC50 values that are relevant for classification:</li> </ul>		
79-20-9 Methyl acetate		
Oral	LD50	>5,000 mg/kg (rat)
		3,705 mg/kg (rabbit)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	TCLO	15,000 mg/m³ (hmn)
Irritation of skin	Irritation	500 mg/24h (rabbit)
	Irritation	40 mg/kg/24h (rabbit)
Irritation of eyes	Irritation	100 mg/24h (rabbit)
	Intraperitoneal LD50	70 mg/kg (mouse)
		•

· Primary irritant effect:

· on the skin: No irritant effect.

· on the eye: Irritating effect.

• Sensitization: No sensitizing effects known.

### · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

#### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## **12 Ecological information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.

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· **vPvB:** Not applicable.

• Other adverse effects No further relevant information available.

## **13 Disposal considerations**

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

• **Recommendation:** Disposal must be made according to official regulations.

UN-Number DOT, IMDG, IATA	UN1993
UN proper shipping name DOT IMDG IATA	Flammable liquids, n.o.s. (Methyl acetate) FLAMMABLE LIQUID, N.O.S. (Methyl acetate) Flammable liquid, n.o.s. (Methyl acetate)
Transport hazard class(es)	
DOT	
FOMMARE LOUD	3 Flammable liquids
Label	3
IMDG, IATA	
Class	3 Flammable liquids
Label	3
· Packing group · DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user Hazard identification number (Kemle	Warning: Flammable liquids r code): 33
EMS Number:	F-E, <u>S-E</u>
Stowage Category	В
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	x II of Not applicable.

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· Transport/Additional information:	
·DOT	
· Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
·IATA	
· Remarks:	When sold in quantities of less than or equal to 1 mL or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (METHYL ACETATE), 3, II

## **15 Regulatory information**

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

Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

79-20-9 Methyl acetate

· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

• EPA (Environmental Protection Agency)

None of the ingredients is listed.

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#### Trade name: 15(S)-15-methyl Prostaglandin F2α

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TLV (Threshold Limit Value)

None of the ingredients is listed.

#### · NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **16 Other information**

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- · Date of preparation / last revision 03/07/2023

 Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association 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) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL: Recommended Exposure Limit** Flammable Liquids 2: Flammable liquids - Category 2 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Toxic to Reproduction 1B: Reproductive toxicity - Category 1B Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3

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