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1. Identification of the substance/mixture and of the company/undertaking.

1.1 Product identifier

Product form: Liquid
 Trade name: Activator
 HS code: 38089490

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

Relevant identified uses: Intended for general public.
 Use of the substance/mixture: Product intended to dilute make up product.

1.3 Details of the supplier of the safety data sheet

Company : Maqpro
 2 ter rue Alasseur
 75015 Paris
 Phone : 01 42 25 10 11
 Mail : maqpro.usine@orange.fr

1.4 Emergency telephone number

France : ORFILA : +33 1 45 42 59 59

2. Hazards identification.

2.1 Classification of the substance or mixture

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

Hazard class	Hazard category	Target Organs	Hazard statements
Flammable liquids	Category 2	---	H225
Eye irritation	Category 2	---	H319
Specific target organ toxicity – single exposure	Category 3	Central nervous system	H336

For the full text of the H-Statements mentioned in this Section, see Section 16.

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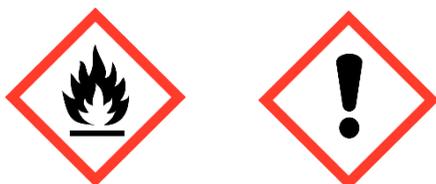
Most important adverse effects

Human Health : See section 11 for toxicological information.
 Physical and chemical hazards : See section 9/10 for physicochemical information.
 Potential environmental effects : See section 12 for environmental information.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols :



Signal Word: Danger

Hazard Statement: H225 – Highly flammable liquid and vapour.
 H319 – Causes serious eye irritation.
 H336 – May cause drowsiness or dizziness.

Precautionary statements:

Prevention	P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 – Avoid breathing dust / fume / gas / mist / vapors / spray. P280 - Wear protective gloves/protective clothing/eye protection/face protection
Response	P305+P351+P338 – IF IN EYES : Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P304+P340+P312 – IF INHALED: transport the person to fresh air and keep them in a position where they can breathe comfortably. Call a POISON CENTER / doctor / if you feel unwell.
Storage	P403+P235 – Store in a well-ventilated place. Keep cool.

Hazardous components which must be listed on the label :

- propan-2-ol

2.3 Other hazards

For Results of PBT and vPvB assessment see section 12.5.

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3. Composition/information on ingredients

3.1 Substances

Classification according to Regulation (EC) No 1272/2008. (cf. 16. Other information)

International Chemical Name	CAS	ENEICS	Amount [%]	Hazard Class and Category Code(s)	Hazard Statement Code(s)
Propan-2-ol	67-63-0	200-661-7]90%-100%]	Flam. Liq. 2 * Eye irrit.2 * STOT SE 3	H225 * H319 * H336

For the full text of the H-Statements mentioned in this Section, see Section 16.

3.2 Mixtures

Not applicable. See section 3.1.

4. First aid measures

4.1 Description of first aid measures

General advice :	Remove from exposure, lie down. Take off all contaminated clothing immediately.
If inhaled :	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position. Consult a physician after significant exposure.
In case of skin contact :	Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.
In case of eye contact :	Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.
If swallowed :	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Call a physician immediately.

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4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. See Section 11 for more detailed information on health effects and symptoms.

Effects : See Section 11 for more detailed information on health effects and symptoms.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : The vapour may be invisible, heavier than air and spread along ground. Vapours may form explosive mixtures with air.

Hazardous combustion products : Carbon monoxide, Carbon dioxide (CO₂)

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment

Further advice : Cool closed containers exposed to fire with water spray. Heating will cause a pressure rise - with risk of bursting. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Keep away from heat and sources of ignition. Use personal protective equipment. Keep away unprotected persons. Provide adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours or spray mist.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water

6.3 Methods and material for containment and cleaning up

Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

See Section 1 for emergency contact information.
 See Section 8 for information on personal protective equipment.
 See Section 13 for waste treatment information.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Keep container tightly closed. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.

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7.2 Conditions for safe storage, including any incompatibilities.

Requirements for storage areas and containers :	Store in original container. Keep in an area equipped with solvent resistant flooring. Unsuitable materials for containers : Aluminium ; polystyrene; ethylene propylene diene rubber; butyl-rubber; natural rubber; cast iron
Advice on protection against fire and explosion :	Keep away from sources of ignition - No smoking. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Take measures to prevent the build up of electrostatic charge. Use only in an area containing explosion proof equipment.
Further information on storage conditions :	Keep tightly closed in a dry and cool place. Keep away from direct sunlight. Keep in a well-ventilated place.
Advice on common Storage :	Incompatible with oxidizing agents. Do not store together with oxidizing and self-igniting products. Keep away from food, drink and animal feedingstuffs.
Suitable packaging Materials :	Stainless steel

7.3 Specific end use(s)

Specific use(s) :	Identified use: See table in front of appendix for a complete overview of identified uses.
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8. Exposure controls/personal protection

8.1 Control parameters

Component :	propan-2-ol	CAS-No. 67-63-0
Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)		
DNEL		
Workers, Long-term - systemic effects, Skin contact :		888 mg/kg bw/day
DNEL		
Workers, Long-term - systemic effects, Inhalation :		500 mg/m ³
DNEL		
Consumers, Long-term - systemic effects, Skin contact :		319 mg/kg bw/day
DNEL		
Consumers, Long-term - systemic effects, Inhalation :		89 mg/m ³
DNEL		
Consumers, Long-term - systemic effects, Ingestion :		26 mg/kg bw/day

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Predicted No Effect Concentration (PNEC)

Fresh water :	140,9 mg/l
Marine water :	140,9 mg/l
Intermittent releases :	140,9 mg/l
Sewage treatment plant (STP) :	2251 mg/l
Sediment :	552 mg/kg d.w.
Soil :	28 mg/kg
Secondary poisoning :	160 mg/kg food

Other Occupational Exposure Limit Values

France. Threshold Limit Values (VLEP) for Occupational Exposure, French Short Term Limit (VLCT) :	400 ppm, 980 mg/m ³ Indicative limit (VL)
---	---

8.2 Exposure controls

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

Advice : In case of insufficient ventilation, wear suitable respiratory equipment. When aerosol or mist is formed use suitable respiratory protection. Respiratory protection complying with EN 141. Recommended Filter type:A Combination filter: A-P2 In case of intensive or longer exposure use self-contained breathing apparatus.

Hand protection

Advice : Protective gloves complying with EN 374. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Protective gloves should be replaced at first signs of wear.

Material :	Nitrile rubber
Break through time :	>= 8 h
Glove thickness :	0,35 mm

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Material : Fluorinated rubber
Break through time : >= 8 h
Glove thickness : 0,4 mm

Material : butyl-rubber
Break through time : >= 8 h
Glove thickness : 0,5 mm

Eye protection
Advice : Safety goggles

Skin and body protection
Advice Solvent resistant protective clothing

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties.

Appearance: liquid
Odour: alcohol-like
Colour: colourless
clear
pH-value: no data available
Melting point: -89 °C
Boiling point/boiling range : 82 °C (ASTM D1078)
Flash point: 12 °C (Method: ASTM D 56)
Evaporation rate : 3,9 (Butyl Acetate = 1)
Flammability (solid, gas) : Not applicable
Upper explosion limit : 13 %(V)
Lower explosion limit : 2 %(V)
Vapour pressure : 43 hPa (20 °C)
Relative vapour density : > 1 (Air = 1.0)
Relative density: 0,786 (20 °C)
Water solubility : completely soluble
Partition coefficient
n-octanol/water : log Kow 0,05
Auto-ignition temperature : > 350 °C
Thermal decomposition : no data available
Viscosity, dynamic : 2,5 mPa.s (20 °C)
Viscosity, kinematic : 2,66 mm²/s (25 °C) (ASTM D 7042)
Explosivity : Product is not explosive. Formation of explosive air/vapour mixtures is possible.
Oxidizing properties : not oxidising

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9.2 Other information

Molecular weight : 60,10 g/mol

10. Stability and reactivity

10.1 Reactivity

Advice : No decomposition if stored and applied as directed.

10.2 Chemical stability

Advice : Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

Hazardous reactions : Possible formation of peroxide.
 Note : Formation of explosive air/vapour mixtures is possible.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents, Amines, Aldehydes, alkanolamines, alkalis, Strong acids

10.6 Hazardous decomposition products

Hazardous decomposition products : Under fire conditions : Carbon oxides

11. Toxicological information

11.1 Information on toxicological effects

Component : propan-2-ol **CAS-No.** 67-63-0

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Acute toxicity

Oral

LD50 : 5840 mg/kg (Rat) (OECD Test Guideline 401)

Inhalation

LC50 : > 25 mg/l (Rat ; 6 h ; vapour) (OECD Test Guideline 403)

Dermal

LD50 : 13900 mg/kg (Rabbit) (OECD Test Guideline 402)

Irritation

Skin

Result : No skin irritation (OECD Test Guideline 404) Decreases the skin which may cause dry and rough. Prolonged or repeated skin contact may result in dermatitis.

Eyes

Result : Eye irritation (OECD Test Guideline 405) Splashes in eyes may cause strong pain. Vapour acts irritant.

Sensitisation

Result : not sensitizing (Buehler Test ; Dermal; Guinea pig) (OECD Test Guideline 406)

CMR effects

Carcinogenicity

NOEL : 5.000 ppm
(negative, Mouse, male and female)(Inhalation; 0, 500, 2500, 5000 ppm; 78 weeks; Frequency of treatment: 5 days/week)(OECD Test Guideline 451)

CMR Properties

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

Mutagenicity : In vitro tests did not show mutagenic effects

In vivo tests did not show mutagenic effects

Teratogenicity : No effects on or via lactation

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

Genotoxicity in vitro

Result : negative (Bacterial Reverse Mutation Test ; Salmonella typhimurium; with and without metabolic activation) (OECD Test Guideline 471)

Genotoxicity in vivo

Result : negative (In vivo micronucleus test ; Mouse, male and female) (intraperitoneal;) (OECD Test Guideline 474)

Teratogenicity

NOAEL : 400 mg/kg bw/day

Maternal

NOAEL : 400 mg/kg bw/day

Develop.

(Rat, Sprague-Dawley)(Oral)(OECD Test Guideline 414)No adverse effects

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Reproductive toxicity

NOAEL : 853 mg/kg bw/day
Parent (One-Generation Reproduction Toxicity Study; Rat, wistar, male and female)(Oral)(OECD Test Guideline 415)No negative effects

NOAEL : 500 mg/kg bw/day
Parent (Two-generation reproductive toxicity; Rat, Sprague-Dawley, male and female)(Oral)(OECD Test Guideline 416)No negative effects

Specific Target Organ Toxicity

Single exposure

Inhalation : Target Organs: Central nervous systemMay cause drowsiness or dizziness.

Repeated exposure

Remark : Oral and inhalation repeated exposure studies demonstrated target organ effects in male rats (kidney) and male and female mice (thyroid) by mechanisms of action that are not relevant to humans

Other toxic properties

Aspiration hazard

Aspiration hazard if swallowed - can enter lungs and cause damage. Aspiration may cause pulmonary oedema and pneumonitis. Based on available data, the classification criteria are not met.

12. Ecological information

12.1 Toxicity

Component : **propan-2-ol** **CAS-No. 67-63-0**

Acute toxicity

Fish

LC50 : 9640 mg/l (Pimephales promelas; 96 h) (flow-through test; OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates

LC50 : 9714 mg/l (Daphnia magna ; 24 h) (static test ; OECD Test Guideline 202)

algae

EC50 : > 100 mg/l (Scenedesmus subspicatus; 72 h)

LOEC 1000 mg/l (algae; 8 d)

Bacteria

EC50 : > 100 mg/l (Bacteria) no harming action

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12.2 Persistence and degradability

Data for the product

Persistence and degradability

Persistence

Result : The product is insoluble and floats on water.
The product evaporates easily from water surface.

Component : **propan-2-ol** **CAS-No. 67-63-0**

Persistence and degradability

Persistence

Result : Transformation due to hydrolysis not expected to be significant.
Transformation due to photolysis not expected to be significant.

Biodegradability

Result : 53 % (aerobic; domestic sewage; Related to: O2 consumption;
Exposure Time: 5 d)(Directive 67/548/EEC, Annex V, C.5)Readily biodegradable.

12.3 Bioaccumulative potential

Result : log Kow 0,05
Bioaccumulation is not expected.

12.4 Mobility in soil

Water : The product is water soluble.
Soil : Mobile in soils

12.5 Results of PBT et vPvB assessment

Result : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects

Additional ecological information

Result : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

13. Disposal consideration

13.1 Waste treatment methods

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Product:	Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.
Contaminated packaging :	Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. If recycling is not practicable, dispose of in compliance with local regulations. Do not burn, or use a cutting torch on, the empty drum. Risk of explosion.
European Waste Catalogue Number :	No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

14. Transport information

In accordance with ADR/RID/IMDG/IATA/ADN :

	ADR/RID	ADN	IMDG	I A T A
14.1 UN number	UN UN1993	UN UN1993	UN UN1993	UN UN1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S	FLAMMABLE LIQUID, N.O.S	FLAMMABLE LIQUID, N.O.S	FLAMMABLE LIQUID, N.O.S
14.3 Transport hazard class(es)/ Marks	3 	3 	3 	3 
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	N.A	N.A	N.A	N.A
14.6 Special precautions for user/Additional information	<u>Hazard identification number</u> 33	<u>Hazard identification number</u> 33	<u>Emergency schedules (EmS)</u> F-E, S-D	<u>Passenger aircraft</u> No data available <u>Cargo aircraft</u> No data available

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15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Data for the product

Nomenclature of 4331
classified installations 1434
(ICPE) - Directive Seveso III :

Flammable liquid, Hazard category 2 or 3
Flammable liquids filling plant

Component :

propan-2-ol

CAS-No. 67-63-0

EU. Regulation EU No.
649/2012 concerning
the export and import
of dangerous chemicals

The substance/mixture does not fall under this legislation.

EU. REACH, Annex XVII,
Marketing and Use
Restrictions (Regulation
1907/2006/EC)

Point Nos. : , 40; Listed

EU. Regulation No
1451/2007 [Biocides],
Annex I, OJ (L 325)

EC Number: , 200-661-7; Listed

EU. Directive 2012/18/EU
(SEVESO III) Annex I

Lower-tier requirements: 5.000 tonnes; Part 1: Categories of dangerous substances ; P5c: Flammable liquids, Categories 2 or 3 not covered by P5a and P5b, The information given is valid if the product is stored below the boiling point and at a pressure of 1013 hPa.

France. INRS, Maladies
Professionnelles, Table of
Work-Related Illnesses

Table : 84 ; Listed

Notification status

propan-2-ol:

Regulatory List	Notification	Notification number
AICS	YES	
DSL	YES	
EINECS	YES	200-661-7
ENCS (JP)	YES	(2)-207
IECSC	YES	
ISHL (JP)	YES	2-(8)-319
ISHL (JP)	YES	(2)-207
JEX (JP)	YES	(2)-207
KECI (KR)	YES	KE-29363
NZIOC	YES	HSR001180
PICCS (PH)	YES	
TSCA	YES	

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15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Abbreviations and Acronyms

STOT specific target organ toxicity	SVHC
substance of very high concern	UVCB
substance of unknown or variable composition, complex reaction products or biological materials	vPvB
very persistent and very bioaccumulative	
BCF	bioconcentration factor
BOD	biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DNEL	derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level

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NOEC	no observed effect concentration
NOEL	no observed effect level
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
PBT	persistent, bioaccumulative and toxic

REACH Auth. No.: REACH Authorisation Number

Further information

Key literature references and sources for data : Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.

Methods used for product classification : The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.

Hints for trainings : The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.

Other information : The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.
The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Regulatory requirements relative to the distribution of this MSDS: In accordance with the regulatory requirements, all information in the MSDS must be transmitted by the MSDS recipient to the health authorities, to any party receiving the products and to any other person likely to be exposed to the products.

Asterisks (*) on life show modifications with regard to last chemical safety data sheet.