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complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)

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

1.1 Product identifier

Trade name: ACTIVATOR 400 NP
UFI: 3JYQ-JA7T-P91K-29AK

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
Application of the substance / the mixture:
Cleaner/activator for porous surfaces based on a mixture of adhesion promoters in solvents.

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
PENETRON HELLAS S.A. G.E.MH. No: 07278001000
50, THRAKOMAKEDONON AV., 136 79 ACHARNES, GREECE
TEL.: +30 210 2448250 - FAX: + 30 210 2476803
Email: info@penetron.gr Site: www.penetron.gr

1.4 Emergency telephone number:

European Emergency Tel.: 112

*
SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation EC No 1272/2008 CLP:

GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.

2.2 Label elements
Labelling according to Regulation EC No 1272/2008 CLP:
The product is classified and labelled according to the CLP regulation.
Hazard pictograms:

GHS02 GHS07

Signal word: Danger

Hazard-determining components of labelling:
propan-2-ol

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butanone
Titanium tetrabutanolate

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

Precautionary statements
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves / eye protection / face protection.
P312 Call a POISON CENTER/doctor if you feel unwell.
P370+P378 In case of fire: use dry sand, dry chemical or alcohol-resistant foam to extinguish.

2.3 Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

Determination of endocrine-disrupting properties		
CAS: 78-93-3	butanone	List II

*
SECTION 3: Composition/information on ingredients

3.2 Mixtures
Description: Mixture consisting of the following dangerous ingredients:

Ingredients according Regulation (EU) 2020/878:		
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	≥90-<94%
CAS: 78-93-3 EINECS: 201-159-0 Index number: 606-002-00-3 Reg.nr.: 01-2119457290-43-XXXX	butanone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	≥4.5-<5%
CAS: 5593-70-4 EINECS: 227-006-8 Reg.nr.: 01-2119967423-33-XXXX	Titanium tetrabutanolate Flam. Liq. 3, H226; Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335-H336	≥2.5-<3%

SECTION 4: First aid measures

4.1 Description of first aid measures
General information:
Take affected persons out into the fresh air.
Seek immediate medical advice.
After inhalation:
Fresh air is essential.

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In the event of breathing difficulties, get medical advice/attention immediately.
After skin contact:
Remove contaminated clothing.
Wash the skin immediately with soap and water.
If skin irritation continues, consult a doctor.
Wash contaminated clothing thoroughly.
After eye contact:
Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.
Check for and remove any contact lenses.
Continue to rinse for at least 15 minutes.
Get medical attention if irritation occurs.
Avoid strong water jet-risk of cornea damage, consult a doctor.
After swallowing:
Drink plenty of water and provide fresh air. Call for a doctor immediately.
Seek immediate medical advice.
Never give anything by mouth to an unconscious person.
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 relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents:
Carbon dioxide, sand.
Foam
Sand or earth
For product loss or leakage that has not caught fire, water spray can
be used to disperse flammable vapours and protect those trying to stem the leak.
For safety reasons unsuitable extinguishing agents:
Jet of water
Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.
5.2 Special hazards arising from the substance or mixture No further relevant information available.
5.3 Advice for firefighters
Protective equipment:
Self contained breathing apparatus and full protective clothing must be worn in case of fire.
Wear protective goggles.
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health.
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).
Additional information
Collect contaminated fire fighting water separately. It must not enter the sewage system.
Cool the containers with water spray from a safe distance.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:
Stop or contain leak at the source, if safe to do so.
Wear protective equipment. Keep unprotected persons away.
Block the leakage if there is no hazard.
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.
Keep away from ignition sources.
Use explosion-proof equipment.

6.1.1 For non-emergency personnel
Avoid contact with dripping or leaking material
Use personal protective equipment.

6.1.2 For emergency responders
Wear protective equipment. Keep unprotected persons away.
First-aid responders must wear protectice clothing, gloves, goggles and respiratory device with filter type A.

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:
Dispose contaminated material as waste according to item 13.
Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10.
Send for recovery or disposal in suitable receptacles.
Absorb the remainder with inert absorbent material.
Ensure adequate ventilation

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
Open and handle receptacle with care.
Handle with care. Avoid jolting, friction and impact.
Avoid contact with eyes, skin and clothing.

Information about fire - and explosion protection:


Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.
Do not spray onto a naked flame or any incandescent material.
Flammable gas-air mixtures may form in empty receptacles.
Keep it in a dry, cool, well ventilated, fixed in advance place, away from sources of heat, flames, ignition and direct sunlight.
Vapours may catch fire and an explosion may
occur. Vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without
adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire.

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When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear.
Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges.
In order to avoid the risk of fires and explosions, never use compressed air when handling.
Open containers with caution as they
may be pressurised.
Do not eat, do not smoke during use
Avoid leakage of the product into the environment.

7.2 Conditions for safe storage, including any incompatibilities

Storage:
Store in cool, dry conditions in well sealed receptacles.
Store in original containers
keep far away from sources of heat, naked flames, sparks , other sources of ignition. Keep away from direct sunlight.
Avoid heat, radiation, static electricity and contact with food.

Requirements to be met by storerooms and receptacles:
Store in a cool location.
Provide ventilation for receptacles.
Storage class TRGS 510 (Germany): 3

Information about storage in one common storage facility: Keep away from incompatible materials.

Further information about storage conditions:
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

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

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
CAS: 67-63-0 propan-2-ol	
WEL (Great Britain)	Short-term value: 1250 mg/m³, 500 ppm Long-term value: 999 mg/m³, 400 ppm
CAS: 78-93-3 butanone	
WEL (Great Britain)	Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, BMGV
IOELV (EU)	Short-term value: 900 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm

DNELs
(CAS: 67-63-0) Propan-2-ol, Isopropanol
Workers
Long-term systemic effects, dermal: 888 mg/kg
Long-term systemic effects, inhalation: 500 mg/m³
Consumers
Long-term systemic effects, dermal: 319 mg/kg
Long-term systemic effects, inhalation: 89 mg/m³
Long-term systemic effects, oral: 26 mg/kg
(CAS: 78-93-3) butanone
workers

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Chronic, systemic, Skin : 1161 mg/kg
Chronic, systemic, inhalation : 600 mg/m³
Consumers
Chronic, systemic, oral: 31 mg/kg
Chronic, systemic, Skin: 412 mg/kg
Chronic, systemic,Inhalation dialogue: 106 mg/m³
PNECs
(CAS: 67-63-0) Propan-2-ol
Fresh water: 140,9 mg/l
Marine water: 140,9 mg/l
Intermitent releases: 140,9 mg/l
Sediment (fresh water): 552 mg/kg
Sedeiment (marine water): 552 mg/kg
Soil: 28 mg/kg
STP: 2.251 mg/l
(CAS: 78-93-3) butanone
Normal value in fresh water 55,8 mg/l
Normal value for fresh water sediment 284,74 mg/kg
Normal value for marine water sediment 284,7 mg/kg
Normal value for water, intermittent release 55,8 mg/l
Normal value of STP microorganisms 709 mg/l
Normal value for the terrestrial compartment 22,5 mg/kg

8.2 Exposure controls

8.2.1. Appropriate engineering controls Provide adequate ventilation.

Individual protection measures, such as personal protective equipment
General protective and hygienic measures:
As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is
well aired through effective local aspiration.
Take appropriate protective measures with regard to the handling of chemicals and mixtures.
Personal protective equipment must be CE marked, showing that it complies with applicable standards.
Provide an emergency shower with face and eye wash station.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Ensure that washing facilities are available at the work place.
Avoid contact with the eyes.
Respiratory protection:
If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type
A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases
or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.
Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the
threshold values considered. The protection provided by masks is in any case limited
If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an
emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or

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external air-intake breathing
apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

Hand protection

Protective gloves resistant to chemicals (standard EN 374-1)

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
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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.

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.
The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Eye/face protection

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344).
Wash body with soap and water after removing protective clothing.
Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

Environmental exposure controls

Do not release the product into the environment without control.
Legislation for the protection of the environment must be met in full.
If there are any established local limits for the emission of dangerous substances should be followed.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state	Liquid
Colour:	transparent
Odour:	typical of solvent
Odour threshold:	Not determined
Boiling point or initial boiling point and boiling range	78 °C
Flammability	Not applicable
Lower and upper explosion limit	
Lower:	Not determined
Upper:	Not determined

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Flash point:	13 °C
Decomposition temperature:	Not determined
pH	5.54
Viscosity:	
Kinematic viscosity	Not determined
Dynamic:	Not determined
Solubility	
water:	Not determined
Partition coefficient n-octanol/water (log value)	Not determined
Vapour pressure at 20 °C:	0.1 hPa
Density and/or relative density	
Density at 20 °C:	0.77-0.79 g/cm³
Relative density	Not determined
Vapour density	Not determined

9.2 Other information

Appearance:	
Form:	Liquid
Important information on protection of health and environment, and on safety.	
Auto-ignition temperature:	Not determined
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Solvent content:	
VOC (EC)	VOC (Directive 2010/75/EC) : 97,50 % VOC (volatile carbon) : 58,73 %
Cloud point / clarification point:	
Oxidising properties	No data available
Evaporation rate	Not determined

Information with regard to physical hazard classes

Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Highly flammable liquid and vapour.
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

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SECTION 10: Stability and reactivity

10.1 Reactivity
Stable under normal conditions
(CAS : 78-93-3) butanone
Reacts with: light metals,strong oxidants.Attacks various types of plastic materials.Decomposes under the effect of heat.
10.2 Chemical stability Material is stable under normal conditions.
Thermal decomposition / conditions to be avoided
To avoid thermal decomposition do not overheat.
Stable at environment temperature.
10.3 Possibility of hazardous reactions
Product vapors may form explosive mixture with air.
(CAS: 78-93-3) butanone
May form peroxides with: air,light,strong oxidising agents.Risk of explosion on contact with: hydrogen peroxide,nitric acid,sulphuric
acid.May react dangerously with: oxidising agents,trichloromethane,alkalis.Forms explosive mixtures with: air.
10.4 Conditions to avoid
Avoid high temperatures.
Avoid electro-static discharge.
Avoid all sources of ignition (sparks or flames) .
(CAS : 78-93-3) butanone
Avoid exposure to: sources of heat.
10.5 Incompatible materials
(CAS: 78-93-3) butanone
Incompatible with: strong oxidants,inorganic acids,ammonia,copper,chloroform.
10.6 Hazardous decomposition products
In case of fire the following can be formed:
Poisonous gases/vapours

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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:		
CAS: 67-63-0 propan-2-ol		
Oral	LD50	5.840 mg/kg (rat)
Dermal	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50/4 h (vapour)	72.6 mg/l (rat)
CAS: 78-93-3 butanone		
Oral	LD50	2.737 mg/kg (rat)
Dermal	LD50	6.480 mg/kg (rabbit)
Inhalative	LC50(8h)	23.5 mg/l (rat)

Skin corrosion/irritation Based on available data, the classification criteria are not met.
Serious eye damage/irritation Causes serious eye irritation.
Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
Germ cell mutagenicity Based on available data, the classification criteria are not met.
Carcinogenicity Based on available data, the classification criteria are not met.

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Reproductive toxicity Based on available data, the classification criteria are not met.
STOT-single exposure
The product is classified as Specific Target Organ Toxicity after single exposure Category 3
May cause drowsiness or dizziness.
STOT-repeated exposure Based on available data, the classification criteria are not met.
Aspiration hazard Based on available data, the classification criteria are not met.
Additional toxicological information:
Repeated dose toxicity Based on available data, the classification criteria are not met.
11.2 Information on other hazards

Endocrine disrupting properties		
CAS: 78-93-3	butanone	List II

*
SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity:
(CAS : 78-93-3) butanone
LC50 - for Fish 2993 mg/l/96h Pimephales promelas
EC50 - for Crustacea 308 mg/l/48h Daphnia magna
(CAS: 67-63-0) propan-2-ol
EC50 Green algae: 1,800 mg/L/7d
EC50 Daphnia magna : 10,000 mg/L/48h
LC50 Pimephales promelas: 9,640 mg/L/96 h
IC50 Lactuca sativa: 2,104 mg/kg/3d
12.2 Persistence and degradability
(CAS: 78-93-3) butanone
Solubility in water > 10000 mg/l
Rapidly degradable
(CAS: 67-63-0) PROPAN-2-OL:
Rapidly degradable
12.3 Bioaccumulative potential
(CAS: 78-93-3) butanone
Partition coefficient: n-octanol/water: 0.3
(CAS: 67-63-0) Isopropyl alcohol
Partition coefficient n-octanol/water: 0.05
12.4 Mobility in soil No further relevant information available.
12.5 Results of PBT and vPvB assessment
Based on available data, the product does not contain PBT or vPvB in an amount greater than 0.1%.
PBT: Not applicable.
vPvB: Not applicable.
12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.
12.7 Other adverse effects No further relevant information available.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation

Dispose according to National Regulations.

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

Contact manufacturer for recycling information.

European waste catalogue	
HP3	Flammable
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

Uncleaned packaging:
Recommendation:
Disposal must be made according to official regulations.
Packaging may be reused or recycled after cleaning.

SECTION 14: Transport information

14.1 UN number or ID number
ADR, IMDG, IATA UN1993
14.2 UN proper shipping name
ADR 1993 FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL), ETHYL METHYL KETONE (METHYL ETHYL KETONE)), special provision 640D
IMDG, IATA FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL), ETHYL METHYL KETONE (METHYL ETHYL KETONE))
14.3 Transport hazard class(es)

ADR, IMDG, IATA

Class 3 Flammable liquids.
Label 3
14.4 Packing group
ADR, IMDG, IATA II
14.5 Environmental hazards: Not applicable.
14.6 Special precautions for user Warning: Flammable liquids.
Hazard identification number (Kemler code): 33

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EMS Number:	F-E,S-E
Stowage Category	B
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.

Transport/Additional information:

ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	D/E

IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S., SPECIAL PROVISION 640D (ISOPROPANOL (ISOPROPYL ALCOHOL), ETHYL METHYL KETONE (METHYL ETHYL KETONE)), 3, II

*
SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
REACH Regulation 1907/2006/EC
Regulation (EU) 2020/878
CLP Regulation 1272/2008/EC
Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemicals agents at work.
Council Directive 94/33/EC on the protection of young people at work, as ammended.
Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding, as ammended

Directive 2012/18/EU
Named dangerous substances - ANNEX I Does not contain named substances.
Seveso category P5c FLAMMABLE LIQUIDS
Qualifying quantity (tonnes) for the application of lower-tier requirements 5.000 t
Qualifying quantity (tonnes) for the application of upper-tier requirements 50.000 t
REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

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Annex II - REPORTABLE EXPLOSIVES PRECURSORS		
None of the ingredients is listed.		

Regulation (EC) No 273/2004 on drug precursors		
CAS: 78-93-3	butanone	3

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors		
CAS: 78-93-3	butanone	3

National regulations:

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57
It doesn't contain substances of very high concern (SVHC).

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

*
SECTION 16: Other information

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.

Relevant phrases

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.

Training hints

Suitable training on safety in handling, storing and converting the product should be given to the employees based on all the existing information.

Department issuing SDS:

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Version number of previous version: 1

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

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Safety data sheet
complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)

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Trade name: ACTIVATOR 400 NP

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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)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

*** Data compared to the previous version altered.**