

Nabrezie Sv. Cyrila 47 Prievidza 97101, Slovakia Reg.No.: 45492409 VAT No.: SK2023015863

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

1.1. Product identifier

Substance name:	Acetone
Synonyms:	Propane-2-one
	2-Propanone
	Dimethyl ketone
EC Name:	Acetone
Index No:	606-001-00-8
(Annex VI to Regulation (EC) No 1272/2008)	
EC No:	200-662-2
CAS No:	67-64-1
REACH Registration No:	01-2119498062-37-0000
(assigned under Article 20(3) of Regulation (EC)	
No 1907/2006)	

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

Identified uses:	Acetone is used as intermediate (chemical feedstock) in production of other chemicals; formulating solvent for commercial products; industrial process solvent. The CSR defines the following uses (IU) of acetone: IU0 [importation and storage –INDUSTRIAL USE]; IU1 [Intermediate in production of other substances –INDUSTRIAL USE]; IU2 [Industrial process solvent –INDUSTRIAL USE]; IU3 [Formulating component in manufacture of preparations – INDUSTRIAL USE]; IU4 [Solvent for professional use –PROFESSIONAL USE]; IU5 [Formulating solvent for commercial products –CONSUMER USE] The Use Descriptors for acetone are listed as follows: Sectors of end use (SU): SU3; SU10; SU21; SU22. Process category (PROC): PROC1; PROC2; PROC3; PROC4; PROC5; PROC7; PROC8b; PROC9; PROC10; PROC11; PROC13; PROC19. Market sector by type of chemical product: PC1; PC9a; PC18; PC19; PC23; PC26; PC34; PC35; PC40. Environmental release category (ERC): ERC1; ERC2; ERC3; ERC4; ERC6a; ERC8a; ERC8b.
	For details on Use Descriptors, refer Section 16 of this eSDS.
Uses advised against:	Acetone shall not be used in contradiction to all relevant national/regional restrictions applied to this substance, including, but not limited to, those prescribed by REACH regulation.
Exposure scenario(s):	For detailed information on exposure assessment, please, refer Annex I to this eSDS.



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1.3. Details of the supplier of the safety data sheet

Manufacturer:	Open Joint Stock Company "Ufaorgsyntez" Ufa, 450037 Republic of Bashkortostan Russian Federation
Only Representative:	PROCHEMICAL GROUP, s.r.o. Nabrezie Sv. Cyrila 47 Prievidza 97101, Slovakia
	tel.: +421 911 993183 web: www.prochemical.eu mail: sales@prochemical.eu

1.4. Emergency telephone number

Manufacturer Emergency number:	Tel: +7 (347) 249-69-72, 242-12-79, 264-89-91, 235-88-22
European Country Emergency Number:	Please, refer to Annex II of this eSDS for the list of Emergency telephones of European Poisons Centers.
	NOTE: The list of emergency telephone numbers is provided here for reference only. It may not be complete or correct. Please, consult with your local/national competent authorities for the emergency number in your country.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification according to the criteria of Regulation (EC) No 1272/2008 (CLP Regulation) (Annex VI, table 3.1):

for physical-chemical properties:	Flammable liquids: Category 2; H225: Highly flammable liquid and vapour.
for health hazards:	 Eye irritation: Category 2; H319: Causes serious eye irritation. Specific target organ toxicity - single: STOT Single Exp. Category 3; H336: May cause drowsiness or dizziness. EUH066: Repeated exposure may cause skin dryness or cracking.
for environmental hazards:	Not classified.

2.1.2. Classification according to the DSD/DPD criteria of Annex I of Directive 67/548/EEC and as reported in Regulation (EC) No 1272/2008 (Annex VI, table 3.2):

for physical-chemical properties: Flammability: F; R11 Highly flammable		
	for physical-chemical properties:	Flammability: F; R11 Highly flammable



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for health hazards:	Acute toxicity: R67; Vapours may cause drowsiness and dizziness.
	Irritation / Corrosion: Xi; R36 Irritant; Irritating to eyes.
	R66 Repeated exposure may cause skin dryness or
	cracking.
for environmental hazards:	Not classified.

2.2. Label elements

2.2.1. Labelling according to the GHS criteria of Regulation (EC) No 1272/2008 (CLP Regulation):

Signal word:	Danger	
Hazard pictograms:	GHS02: flame GHS07:exclamation mark	
Hazard statements:	H225: Highly flammable liquid and vapour.	
	H319: Causes serious eye irritation.	
	H336: May cause drowsiness or dizziness.	
	EUH066: Repeated exposure may cause skin dryness or cracking	



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Sales department:

Precautionary statements:	Prevention:
	P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
	P233: Keep container tightly closed.
	P240: Ground/bond container and receiving equipment.
	P241: Use explosion-proof electrical/ventilating/lighting/ other equipment.
	P242: Use only non-sparking tools.
	P243: Take precautionary measures against static discharge.
	P261: Avoid breathing fume/gas/mist/vapours/spray.
	P264: Wash hands thoroughly after handling.
	P271: Use only outdoors or in a well-ventilated area.
	P280: Wear protective gloves/protective clothing/eye protection/face protection.
	Response:
	P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
	P312: Call a POISON CENTER or doctor/physician if you feel unwell. P337+P313: If eye irritation persists: Get medical advice/attention.
	Storage:
	P403+P233: Store in a well-ventilated place. Keep container tightly
	P405: Store locked up.
	Disposal:
	P501: Dispose of contents/container in accordance with local/
	regional/ national/ international regulation.

2.2.2. Labelling according to the DSD/DPD criteria of Annex I of Directive 67/548/EEC and as reported in Regulation (EC) No 1272/2008 (CLP Regulation):

Indication of danger:	F - highly flammable
	Xi – irritant
R-phrases:	R11 - highly flammable
	R36 - irritating to eyes
	R66 - repeated exposure may cause skin dryness or cracking
	R67 - vapours may cause drowsiness and dizziness
S-phrases:	S2 - keep out of the reach of children
	S9 - keep container in a well-ventilated place
	S16 - keep away from sources of ignition - No smoking
	S26 - in case of contact with eyes, rinse immediately with plenty of
	water and seek medical advice.

2.3. Other hazards



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Physical Chemical Hazards:	 Fire and Explosion Hazards: Highly flammable liquid. Will be easily ignited by heat, sparks or flames. Flash point: - 18 deg C (closed cup) Auto-ignition temperature: 465oC Vapours may form explosive mixtures with air. Explosive limits, vol% in air: 2.2 -13 Vapor may explode if ignited in an enclosed
	area.Chemical Hazards:➤ The substance can form explosive peroxides on
	 contact with strong oxidants such as acetic acid, nitric acid, hydrogen peroxide (ICSC 0087). Reacts with chloroform and bromoform under basic conditions, causing fire and explosion
	hazard (ICSC 0087).> Incompatible materials: oxidizers, acids, alkalis.
Human Health Hazards:	Eye and Skin Contact:
	The substance (vapour) irritates the eyes and mucous membranes.
	The liquid defats the skin. Repeated contact with skin may cause dryness and cracking, possibly leading to dermatitis.
	Inhalation:
	The substance is irritating to the respiratory tract.
	 Exposure at high levels may result in lowering of consciousness.
	 Ingestion: ➤ Low order of toxicity but very irritating to mucous membranes.

SECTION 3: Composition/information on ingredients



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Main constituent(s):	Chemical name	CAS No	EC No	Weight % content
	Acetone	67-64-1	200-662-2	≥ 99.75%
Stabilizer(s):	None			
Other Hazardous Components/ Impurities:	None			

SECTION 4: First aid measures

4.1. Description of first aid measures

Conoral notae	Consult a physician Show this safety data short to the destan
General notes:	Consult a physician. Snow this safety data sheet to the doctor.
Following inhalation:	If a person breathes in large amounts of acetone, move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get medical
	attention immediately.
Following skin contact:	Remove contaminated clothes. Rinse skin with plenty of water or shower. If symptoms such as redness or irritation develop, get medical attention.
Following eye contact:	If liquid acetone contacts the eyes, they shall be thoroughly irrigated with clean water. Remove contact lenses if present and easy to do. Medical assistance shall be promptly provided in cases of eye splashes.
Following ingestion:	Rinse mouth. Do not induce vomiting. Volatile chemicals have a high risk of being aspirated into the lungs during vomiting which increases the medical problems. Obtain medical attention immediately.

4.2. Most important symptoms and effects, both acute and delayed

	5
Inhalation:	 The substance is irritating to the respiratory tract. Inhalation to high concentrations may cause sore throat, cough, confusion, headache, dizziness, drowsiness, unconsciousness. Acotone may be parentic and cause
	unconsciousness.
Skin/Eye contact:	The substance is irritating to eyes and mucous membranes.
	The liquid defats the skin. Repeated contact with skin may cause dryness and cracking.
	Direct contact with the skin should be avoided. Acetone should never be used as a cleaning agent for the skin.
Ingestion:	Do not induce vomiting. Volatile chemicals have a high risk of being aspirated into the lungs during vomiting which increases the medical problems.

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

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Acute exposure:	For special medical treatment and/or advice
	immediately refer to medical professionals.



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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:	Alcohol-resistant foam, water spray, fog, dry chemical, carbon dioxide.
Unsuitable extinguishing media:	Do not use water jet (straight streams) to extinguish.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:	Gives off toxic and irritant fumes when heated or burning.
Fire and Explosion Hazards:	Highly flammable liquid. Will be easily ignited by heat, sparks or flames. Dangerous disaster hazard due to fire and explosion hazard.
	Flash point: - 18oC (closed cup).
	Auto-ignition temperature: 465oC.
	Vapours may form explosive mixtures with air. Explosive limits, vol% in air: 2.2 -13.
	 Vapor may explode if ignited in an enclosed area. Vapour explosion hazard indoors, outdoors or in sewers.
Unusual fire and explosion hazards:	Gives off toxic and irritant fumes when heated or burning.
	Vapours may travel to source of ignition and flash back.
	The vapour may be invisible and is heavier than air. It may spread along the ground and collect in low or confined areas (sewers, basements, tanks).
	Runoff to sewer may create fire or explosion hazard.
	Heating of container(s) will cause pressure rise with risk of bursting and subsequent explosion. Containers may explode when heated.

5.3. Advice for firefighters

To fight fire use alcohol-resistant foam, water spray, fog, dry chemical, carbon dioxide.
Do not use water jet to extinguish.
Use water spray to knock down fire fumes if possible.
 Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
Cool containers with flooding quantities of water until well after fire is out. Apply water from as far a distance as possible.
Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire.



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Personal protection:	 Self-Contained Breathing Apparatus (SCBA) with appropriate chemical protection suit.
	Fire fighter's clothing conforming to European standard EN469.
First aid:	 If substance has got into eyes, wash out with water for at least 15 minutes and seek immediate medical attention. Remove contaminated clothing immediately and drench affected skin with plenty of water.
	Persons who have been in contact with the substance or have inhaled fumes should get immediate medical attention. Pass on all available product information.
	In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing adhering to skin. Cot immediate modical attention

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Protective equipment:	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.



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Emergency procedures:	If employees are required to clean up spills, they must be properly trained and equipped.
	Avoid breathing vapors. Keep upwind.
	 Do not touch or walk through spilled material. Do not handle broken packages without protective equipment.
	Wash away any material, which may have contacted the body with copious amounts of water or soap and water.
	Work clothing that becomes wet should be immediately removed due to its flammability hazard.
	Keep sparks, flames, and other sources of ignition away.
	 Collect leaking and spilled liquid in sealable containers as far as possible.
	Absorb remaining liquid in sand or inert absorbent and remove to safe place. Then wash away with plenty of water.
	Do not wash away into sewer.
	> Keep material out of water sources and sewers.
	Attempt to stop leak if without undue personnel hazard.
	 Use water spray or mist to disperse vapors and dilute standing pools of liquid.
	> Do not let this chemical enter the environment.

6.1.2. For emergency responders:

Emergency Response in case of Spill and Leak:	Evacuate and restrict persons not wearing protective equipment from area of spill or leak until cleanup is complete. Remove all ignition sources.
	 It may be necessary to contain and dispose of this chemical as a hazardous waste.
	If material or contaminated runoff enters waterways, notify downstream users of potentially contaminated waters. Contact the responsible authority in your country/region for specific recommendations.
	 If employees are required to clean up spills, they must be properly trained and equipped.
Public Safety Hazard:	Minimize number of personnel in risk area.

6.2. Environmental precautions



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Accidental Spills and	Do not wash away into sewer.	

Sales department:

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Accidental Spills and		Do not wash away into sewer.
Releases:		Keep away from drains, surface and ground water. Do not let this
		chemical enter the environment.
	\triangleright	If substance has entered a water course or sewer, inform the
		responsible authority.

6.3. Methods and material for containment and cleaning up

For containment:	Prevent further leakage or spillage if safe to do so.
	It may be necessary to contain and dispose of this chemical as a hazardous waste.
	Evacuate and restrict persons not wearing protective equipment from area of spill or leak until cleanup is complete. Remove all ignition sources.
	It may be necessary to contain and dispose of this chemical as a hazardous waste.
	If material or contaminated runoff enters waterways, notify downstream users of potentially contaminated waters. Contact the responsible authority in your country/region for specific recommendations.
	If employees are required to clean up spills, they must be properly trained and equipped.
	 If spilled, the following steps should be undertaken: Small spill: Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place.
	Land spill: Dig a pit, pond, lagoon, holding area to contain liquid or solid material. Dike surface flow using soil, sand bags, foamed polyurethane, or foamed concrete. Absorb bulk liquid with fly ash, or commercial sorbents.
	Water spill: Use natural barriers or oil spill control booms to limit spill travel. Remove trapped material with suction hoses. Air spill: Apply
	water spray or mist to knock down vapors

6.4. Reference to other sections

Other information:	For more information, refer to Sections 8 and 13 of
	this Safety Data Sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

7.1.1. Protective measures

Training:	Any person who contrained in proper has and local laws and results.	Any person who comes into contact with the substance needs to be trained in proper handling and safety per applicable federal, state and local laws and regulations.
		Employers must advise employees of all areas and operations where exposure to the substance might occur.



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	All workers who may be potentially exposed to this substance shall be kept informed of the hazards, relevant symptoms, effects
	of overexposure to, and proper precautions concerning safe use and handling of this chemical.
	The hazard information shall be readily available to workers at all places of employment where acetone is manufactured, used, transported or stored.
Measures to prevent fire:	Normal measures for preventive fire protection when handling highly flammable liquid substances. Keep sparks, flames, and other sources of ignition away. No smoking. Take measures to prevent the build up of electrostatic charge.
Measures to prevent aerosol and	Avoid formation of aerosols and mists.
dust generation:	 Avoid inhalation of aerosols and mist.
	Avoid contact with skin and eyes.
	Use in a well ventilated area.
Measures to protect the	Do not wash away into sewer.
environment:	Keep away from drains, surface and ground water. Do not let this chemical enter the environment.
	If substance has entered a watercourse or sewer, inform the responsible authority.

7.1.2. Advice on general occupational hygiene:

Handling:	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink, or smoke during work. Wash hands before eating, after handling the substance, before breaks and at the end of workday.
	Wash skin: The worker should immediately wash the skin when it becomes contaminated.
	The liquid defats the skin. Repeated contact with skin may cause dryness and cracking. Direct contact with the skin should be avoided. Acetone should never be used as a cleaning agent for the skin.
	Work clothing that becomes wet should be immediately removed due to its flammability hazard.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:	 Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
	Keep away from heat, sparks, and flames.
	> Store separated from incompatible substances.
Packaging materials:	Containers, which are opened, must be carefully
	resealed and kept upright to prevent leakage.



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Requirements for storage rooms and vessels:	Store in an area without drain or sewer access.
Further information on storage	Store separated from food and feedstuffs.
conditions:	

7.3. Specific end use(s)

Fire/Explosion prevention:	 No open flames. No contact with hot surfaces. Standard measures for preventive fire protection when handling highly flammable liquid substances. Work clothing that becomes wet should be
	immediately removed due to its flammability hazard.
Recommendations:	For detailed information on exposure scenarios, please, refer Annex I to this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National Occupational Exposure limit values

Substance:	Acetone
CAS No.	67-64-1

Country	Limit value –		Limit value -		Legal basis			
	8 nours	5	Short term (15 minutes)					
	ppm	mg/m ³	ppm	mg/m ³				
European Union	500	1210	-	-	Indicative Occupational Exposure Limits (IOELVs)/ DIR 2000/39/CE			
Austria	500	1200	2000	4800	Maximum Workplace Concentrations ("Maximale Arbeitsplatzkonzentrationen" – MAK)			
Belgium	500	1210	1000	2420	Occupational exposure limits (Valeurs limites d'exposition professionnelle – VLEP/ Grenswaarden voor beroepsmatige blootstelling – GWBB)			
Bulgaria	No data	No data available						
Cyprus	No data	No data available						
Czech Republic	No data	No data available						
Denmark	250	600	500	1200	No data available			



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Estonia	No data available						
Finland	No data available						
France	500	1210	1000	2420	Occupational exposure limit values for occupational exposure to chemical agents in France		
Germany	500	1200	1000	2400	OccupationalLimitValues(Arbeitsplatzgrenzwerte – AGW)		
	500	1200	1000	2400	MAK values derived by the "DFG Commission for		
					the Investigation of Health Hazards of Chemical Compounds in the Work Area"		
Greece	No data available						
Hungary	-	1210	-	2420	Hungarian decree No. 25/2000 (IX.30) on the Chemical Safety of Workplaces issued by the Ministry of Social Affairs and Health		
Ireland	No data available						
Italy	500	1210	-	-	No data available		
Latvia	No data available						
Lithuania	No data available						
Luxembourg	No data available						
Malta	No data available						
Netherlands	-	1210	-	2420	Limit values/The Netherlands: Dutch Legal Public Limit Values		
Poland	-	600	-	1800	The Interdepartmental Commission for Maximum Admissible Concentrations and Intensities for Agents Harmful to Health in the Working Environment		
Portugal	No data available						
Romania	No data available						
Slovakia	No data available						
Slovenia	No data available						



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Spain	500	1210	-	-	Spanish legislation on chemical agents (Royal
					Decree 374/2001 transposing Directive
					98/24/EC).
Sweden	250	600	500	1200	No data available
United	500	1210	1500	3620	Workplace Exposure Limits (WELs)
Kingu0III					

Source:	Based on GESTIS International Limit values Database available at http://www.dguv.de/ifa/en/gestis/limit_values/index.jsp
NOTE:	All currently adopted by the national/regional competent authority levels on safe exposure to this chemical shall apply.

8.1.2. International Occupational Exposure limit values Substance:AcetoneCAS No.67-64-1

Country/ Limit value - Limit value - Short **Specific Notations** Organization term 8 hours (15 minutes) ppm mg/m³ ppm mg/m^3 ACGIH 500 -750 _ A4 (Not Classifiable as a Human Carcinogen) Switzerland 500 1200 1000 2400 Swiss occupational exposure limit values 590 **USA-NIOSH** 250 -_ Recommended Exposure Limit (REL) USA-OSHA 2400 1000 --Permissible Exposure Limits (PELs)

NOTE: All currently adopted by the national/regional competent authority levels on safe exposure to this chemical shall apply.

8.1.3. The Derived No Effect Levels (DNELs)/ Derived Minimal Effect Levels (DMELs) and Predicted No Effect Concentrations (PNECs)

8.1.3.1. DNEL/DMEL from the CSR in accordance with REACH regulation

Substance:	Acetone
CAS No.	67-64-1

Route of	Workers	Consumers
exposure		



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	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effects local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required			No DNEL/DMEL is proposed				
Inhalation	Workplace exposure: DNEL/DMEL: 1210 mg/m3 (500 ppm) -8-h TWA.			No DNEL/	'DMEL is pr	roposed		
Dermal	No DNEL/DMEL is proposed			No DNEL/	DMEL is pi	roposed		

NOTE: These values are not legally binding and referred here for recommendation purpose only. All currently adopted by the national/regional competent authority levels on safe exposure to this chemical shall apply.

8.1.3.2. PNECs from the CSR in accordance with REACH regulation:

Substance:	Acetone
CAS No.	67-64-1

Environmental protection target	PNEC
Fresh water:	▷ PNEC = 30.21 mg/L
Freshwater sediments:	>> No PNEC is proposed
Marine water:	> PNEC = 30.21 mg/L
Marine sediments:	>> No PNEC is proposed
Food chain:	>> No PNEC is proposed
Microorganisms in sewage treatment:	>> No PNEC is proposed
Soil (agricultural):	>> No PNEC is proposed
Air:	>> No PNEC is proposed

NOTE: These values are not legally binding and referred here for recommendation purpose only. All currently adopted by the national/regional competent authority levels on safe exposure to this chemical shall apply.



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8.2. Exposure controls

Appropriate engineering controls:	Engineering controls should be sufficient to reduce exposures to this chemical to the lowest level achievable.
	 Hazard communication: The transmittal of hazard information to workers is to be accomplished by such means as container labelling and other forms of warning, material safety data sheets, and employee training. Housekeeping and Hygiene Facilities: The workplace should be kept clean, orderly, and in a sanitary condition. Adequate washing facilities shall be provided and maintained in a sanitary condition. Comply with principles of good industrial hygiene and safety practice. Do not eat, drink, or smoke during work. Wash hands before eating, before breaks and at the and afwarkday.
Personal Protection	 Eye/face protection: If there is a potential that
	this chemical can come in contact with eye or skin, appropriate eye and skin protective
	equipment shall be provided and used.
	Appropriate eye and face protection may be
	necessary to prevent contact with this



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A	substance. Suitable protective clothing and eye protection should be in accordance with national, or regional standards and regulations. Skin protection: Handle with appropriate gloves. Gloves must be inspected prior to use. Use proper glove removal method –without touching glove's outer surface –to avoid skin contact with this product.
A	Respiratory protection: Personal Protective Equipment/ Respiratory Protection: should be used in accordance with company and applicable national regulatory requirements. Respiratory protection should be used to supplement the engineering controls and work practices. Persons should not be assigned to tasks requiring the use of respirators unless it has been determined they are physically able to perform the work and are trained to use the equipment.
	Chemical Protective Clothing: The level of protection selected should be based on the potential substance concentration and likelihood of contact/ exposure. Suitable protective clothing and eye protection should be in accordance with national, or regional standards and regulations.
	All protective clothing shall be well aired and
~	Inspected for physical defects before re-use.
*	re-use. Work clothing that becomes wet should be immediately removed due to its flammability
	nazara

8.3. Environmental Exposure controls

Measures to prevent exposure:	Apply all necessary Risk Management Measures to ensure compliance with relevant national or regional legislation requirements.	
	 Engineering controls and good work practices; 	
	 Regular monitoring for leak detection; 	
	 Hazard communication; 	
	 Housekeeping and Hygiene Facilities 	
Waste-related Measures:	The transportation, storage, treatment, and disposal of the waste material must be conducted in compliance with local regulations for hazardous wastes. Disposal can occur only in properly permitted facilities. Check state and local regulation of any additional requirements for disposal conditions.	



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Colorless liquid substance.
Odour:	Characteristic sweetish, acetone-like odour.
Odour threshold:	Air: 9.5 mg/m3 (4 ppm) - detection; 237-332 mg/m3 (100-140 ppm) - 100% odour recognition (WHO, 1998). Water: 20 mg/L (WHO, 1998).
pH:	No data available.
Melting point/freezing point:	-95°C
Initial boiling point and boiling range:	56°C
Flash point:	-18oC (closed cup)
Evaporation rate:	No data available.
Flammability:	Highly Flammable Liquid.
Upper/lower flammability or explosive limits:	Lower flammable limit: 2.2% by volume; Upper flammable limit: 13% by volume.
Vapour pressure:	249 mm Hg ; 33.2 kPa /QSAR estimated at 25 °C/
Vapour density:	No data available.
Relative density:	0.790 g/cm3 (at 20°C)
Solubility(ies):	Miscible with water. Readily soluble in organic solvents.
Partition coefficient: noctanol/ water:	Log Kow = - 0.24 /QSAR estimated/
Auto-ignition temperature:	465°C
Decomposition temperature:	No data available.
Viscosity:	No data available.
Explosive properties:	Not explosive.
Oxidising properties:	Not oxidizing.

9.2. Other information

Henry's law constant (HLC):	3.97x10-5 atm-m3/mole; 4.02 Pa-m3/mole /QSAR estimate at 25 °C/.
Conversion factors (in air at 25°C):	1 ppm = 2.374 mg/m3; 1 mg/m3 = 0.421 ppm (WHO, 1998).

SECTION 10: Stability and reactivity

10.1. Reactivity



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Reactivity Hazards:	The substance can form explosive peroxides on contact with strong oxidants such as acetic acid, nitric acid, hydrogen peroxide (ICSC 0087).
	 Reacts with chloroform and bromoform under basic conditions, causing fire and explosion hazard (ICSC 0087).
	Incompatible materials: oxidizers, acids, alkalis.

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10.2. Chemical stability

Stability/ Shelf-life:	> Stable under recommended storage conditions.
	No hazardous reaction when handled and
	stored according to provisions.

10.3. Possibility of hazardous reactions

Special precautions:	Materials to avoid: incompatible materials.
	Conditions to avoid: Heat, flames and sparks.

10.4. Conditions to avoid

	Conditions contributing to instability:	Heat, flames and sparks.
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10.5. Incompatible materials

Incompatibilities:	Materials to avoid: oxidizers, acids, alkalis.

10.6. Hazardous decomposition products

Hazardous decomposition products:	Carbon oxides.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects



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Toxicokinetics (absorption, metabolism, distribution and elimination):	Acetone occurs naturally throughout the body and it is one of three biochemical substances collectively referred to as ketone bodies. Acetone is formed endogenously in the liver of the mammals as a result of fatty acid oxidation. Endogenously produced acetone is eliminated from the body either by excretion in urine and exhaled air or by enzymatic metabolism (WHO, 1998).
	Acetone is rapidly absorbed via the respiratory and gastrointestinal tracts and is distributed among non-adipose tissues. Acetone does not accumulate in adipose tissue. Excretion of acetone from the body is rapid and most of acetone (and its metabolite, carbon dioxide) is cleared via exhalation. Urinary excretion of acetone and its metabolites is reported as a minor route of elimination (WHO, 1998).
	Acetone was reported to metabolize to a variety of products used as building blocks for the synthesis of glucose, amino acids, and other complex biochemical substances (OECD, 1999).
Acute toxicity:	 <u>Experimental data:</u> LD50 (oral, adult rats) = 5800-7138 mg/kg bw (WHO, 1998). LD50 (Mice, oral) =5200 mg/kg bw (Bingham et al, 2001).
	LC50 (Rats, 4-h inhalation) = 31,994 ppm (76 000 mg/m3; 76 mg/L) (ATSDR, 1994).
	LD50 (Rabbit, dermal)> >20 mL/kg (>15,688 mg/kg bw) (ATSDR, 1994). LD50 (Guinea pigs, dermal)>9.4 mL/kg (>7,373 mg/kg) (ATSDR, 1994). ➤ <u>Discussion:</u>



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	The experimental data set on acute toxicity of acetone includes studies by inhalation, oral and dermal exposure performed in rodents. These data are, generally, well above the threshold for classification of acetone for acute toxicity (i.e. > 2000 mg/kg bw via oral and dermal exposure routes, and >20 mg/L via inhalation exposure route).
	QSARs modeling data based on the Cramer method (Estimation of toxic hazard- a decision tree approach) suggests low acute toxicity of acetone. Particularly, when concluding the low acute toxicity of acetone, the model assumes that acetone is: Normal constituent of the body.
	The data on acute toxicity of acetone in humans report that very high concentrations of acetone may result in respiratory tract irritation and narcotic effects, including sore throat, cough, dizziness, drowsiness, headache, and unconsciousness.
	Overall, acetone is considered to be of low acute toxicity.
Skin corrosion/irritation:	Acetone defats the skin and repeated contact with skin may result in dryness and cracking, possibly leading to dermatitis (ICSC 0087).
Serious eye damage/irritation:	 Acetone is reported to cause eye irritation, redness, pain, blurred vision (ICSC 0087). Acetone has harmonized at EU level classifications and it is classified as Xi; R36 – Irritating to eyes, in accordance with Directive 67/548/EEC, and Eye Irritant, Hazard Category 2, H319: Causes serious eye irritation, in accordance with the GHS criteria of Regulation (EC) No 1272/2008.
Respiratory irritation:	From the data available for acetone, it is likely that liquid acetone or high concentrations of acetone vapour in the air may cause irritation of respiratory tract.
Respiratory or skin sensitization:	 Skin sensitisation: not considered to be a skin sensitizer. Respiratory sensitisation: not considered to be a respiratory sensitizer.



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Germ cell mutagenicity:	Acetone was not genotoxic when tested in in vitro bacterial experimental systems and in in vivo studies (WHO, 1998). Moreover, application of available QSAR model suggests that this substance is not mutagenic.
	Overall, acetone is not considered as genotoxic/ mutagenic substance.
Carcinogenicity:	 Acetone is considered as A4: Not classifiable as a human carcinogen substance (ACGIH, 2008). Moreover, acetone has been used extensively as a solvent vehicle in skin carcinogenicity studies and is not considered as carcinogenic when applied to the skin.
	carcinogenic substance.
Reproductive toxicity:	Acetone is not considered as reproductive or developmental toxicant.
STOT- single & repeated exposure:	 Repeated dose exposure to acetone may result in toxicity effects on CNS, liver and kidney. The experimental toxicity studies of acetone in rodents performed by the NTP (drinking water studies) identified testis, kidney and hematopoietic system as the target organs of repeated dose toxicity of acetone in male rats and liver –as target organ of repeated dose toxicity of acetone in male/female mice (NTP, 1991): Rats (90-day study): LOAEL (male) =20 000 ppm (1700 mg/kg bw/day); NOAEL =900 mg/kg bw/day LOAEL (female): not identified; NOAEL =3100 mg/kg bw/day Mice (90-day study): LOAEL (male) =20 000 ppm (4858 mg/kg bw/day); NOAEL =2258 mg/kg bw/day LOAEL (female) =50 000 ppm (11298 mg/kg bw/day); NOAEL =5945 mg/kg bw/day. Inhalation toxicity: The NOAEL for the CNSrelated effects of acetone via inhalation =2375 mg/m3 (OECD, 1999). Overall, acetone is considered of low repeated dose systemic toxicity.



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SECTION 12: Ecological information

12.1. Toxicity

12.1.1. Aquatic Environment

Acute (short-term) toxicity:	Fish: LC50 (96-hr, QSAR) =4144.8 mg/L to 6829.1 mg/L.
	Crustacea: LC50 (48-hr, QSAR) =1679.7 mg/L to 20356.9 mg/L.
	 Algae/aquatic plants (Green Algae): EC50 (96hr, QSAR) =302.0 mg/L.
	Other organisms: No data available
Chronic (long-term) toxicity:	Fish: NOEC (QSAR) =167.1 mg/L to 371.8 mg/L
	Crustacea: NOEC (QSAR) =136.7 mg/L -3412.4 mg/L.
	 Algae/aquatic plants (Green Algae): NOEC (QSAR) =79.5 mg/L.
	Other organisms: No data available

12.1.2. Terrestrial Environment

Acute (short-term) toxicity:	Soil macro-organisms: LC50 (14-day, QSAR, earthworm) =172.19 mg/L (ppm).
	Terrestrial plants: No data available.
	Soil micro-organisms: No data available
	> Other terrestrial organisms: No data available
Chronic (long-term) toxicity:	Soil macro-organisms: No data available
	 Terrestrial plants: No data available
	Soil micro-organisms: No data available
	> Other terrestrial organisms: No data available
	No direct or indirect exposure of the soil
	compartment to acetone is expected.

12.2. Persistence and degradability

Hydrolysis:	> Evaluation of acetone structure shows that it is
	not expected to hydrolyze appreciably in the
	environment on the basis of a lack of
	hydrolysable functional groups.



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Phototransformation/ photolysis:	A half-life of 52.43 days is estimated for reaction of acetone with hydroxyl radicals in the atmosphere at 250 C [AOPWIN Program, v.1.92].
Biodegradation:	The QSAR models predict timeframe within days-weeks for primary biodegradation of acetone and weeks for its ultimate degradation.
	Overall ready biodegradability prediction provided by a number of BIOWIN (v.4.10) models suggests acetone is ready biodegradable in the environment.

12.3. Bioaccumulative potential

<u> </u>	
Aquatic bioaccumulation:	BCF/BAF (QSAR estimated) = 0.93 - 3.16 L/kg.
Terrestrial bioaccumulation:	> No data available.

12.4. Mobility in soil

Known or predicted distribution to environmental compartments:	There are no experimental data on environmental distribution of acetone. QSAR modeling predicts that acetone will volatize rapidly from surface water with DT50 = 0.56 days (river) and 8.81 days (lake).
	The low value for soil organic carbon-water partition coefficient (logKoc = 0.37 -0.99) suggests that acetone will not adsorb onto soil and sediment and, therefore, together with its high volatility, will not persist in these environmental media.
	The data on environmental distribution of acetone obtained from the level III fugacity model suggest that acetone will not persist in the environment and depending on various emission scenarios, approximately half of acetone will be degraded by both biotic and abiotic mechanisms and another half will be physically removed (advected) from the environment.
Surface tension:	> No data available.
Adsorption/Desorption:	log Koc (QSAR estimated) =0.37 L/kg to 0.99 L/kg.



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12.5. Results of PBT and vPvB assessment

Persistence Assessment:	The half-lives of acetone in water, sediment and soil are 15 days, 135 days and 30 days, respectively.
	Therefore, acetone meets the Persistence criteria for sediment (fresh- or estuarine water sediment).
Bioaccumulation Assessment:	The BCF (fish) of acetone = 3.16 L/kg wet-wt. Therefore, acetone does not meet the criteria for Bioaccumulation.
Toxicity Assessment:	 Acetone does not meet the PBT criteria for toxicity.
Conclusions on PBT or vPvB Properties:	 Acetone is considered persistent in sediment and is not considered bioaccumulative or toxic substance. Therefore, acetone is not a PBT or vPvB substance.

12.6. Other adverse effects

Other adverse effects:	No data available.
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12.7. Additional information

Conclusion on the environmental hazard	Acetone is not classified as a substance
assessment:	hazardous to aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/ Packaging disposal:	This substance, when discarded or disposed of, is a hazardous waste. The transportation, storage, treatment, and disposal of this waste material must be conducted in compliance with local regulations for hazardous wastes.
	Disposal can occur only in properly permitted facilities. Contact a licensed professional waste disposal service to dispose of this substance. Check state and local regulation of any additional requirements for disposal conditions.
Sewage disposal-relevant information:	Waste should not be disposed of by release to
	sewers.



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Other disposal recommendations:	Disposal of containers: Please, refer your local/national/regional requirements on
	disposal.
SECTION 14: Transport information	
14.1. UN number	
UN No:	▶ 1090
14.2. UN proper shipping name	
UN Proper Shipping Name:	> ACETONE
14.3. Transport hazard class(es)	
Hazard Class or Division:	> 3
14.4. Packing group	
UN Packing Group:	II ∢
14.5. Environmental hazards	
Environmental Hazards:	Acetone is not classified as a substance
	hazardous to aquatic environment.
14.6. Special precautions for user	
Note:	A number of restrictions may apply to materials
	classifications requirements. Please refer to the
	appropriate regulation for specific details
	regarding classification requirements and restrictions

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

	,
Transportation in bulk:	> A number of restrictions may apply to materials
	subject to bulk transportation. Please, refer
	relevant regulation for specific information on
	bulk transportation requirements.

SECTION 15: Regulatory information

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

Export and Import of Dangerous Chemicals	> This substance is not listed in the Annex I of
(Regulation (EC) No 689/2008) Information:	Regulation (EC) No 689/2008.
CLP Regulation (EC) No 1272/2008:	This substance is listed in Annex VI (tables 3.1 and 3.2) to CLP regulation.



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REACH Regulation (EC) No	1907/2006:	Registration requirement (Article 5, REACH
		regulation): This substance is registered in
		accordance with provisions of REACH

Sales department:

regulation. For registration number, please

refer section 1.1 of this eSDS.

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CSA:	Chemical Safety Assessment has been carried
	out for this chemical in accordance with
	provisions of REACH regulation.

SECTION 16: Other information

Use Descriptors:	 SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites.
	> SU 10: Formulation [mixing] of preparations
	and/or repackaging (excluding alloys).
	SU21: Consumer uses.
	 SU22: Professional uses.
	PROC 1: Use in closed process, no likelihood of exposure.
	PROC 2: Use in closed, continuous process with occasional controlled exposure.
	 PROC 3: Use in closed batch process (synthesis or formulation).
	 PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises.
	 PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact).
	PROC7: Industrial Spraying.
	 PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities



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	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
	PROC10: Roller application or brushing
Þ	PROC11: Non Industrial spraving
	PROC13: Treatment of articles by dipping and pouring
۶	PROC19: Hand-mixing with intimate contact and only PPE available.
\triangleright	PC1: Adhesives, sealants.
\triangleright	PC9a: Coatings and paints, thinners, paint
	removers.
\triangleright	PC18: Ink and toners.
\triangleright	PC 19: Intermediate.
۶	PC23: Leather tanning, dye, finishing, impregnation and care products
	PC26: Paper and board dye, finishing and impregnation products: including bleaches and other processing aids;
	PC34: Textyle dyes, finishing and impregnating products; including bleaches and other processing aids.
	PC35: Washing and cleaning products (including solvent based products).
\triangleright	PC40: Extraction agents.
\triangleright	ERC1: Manufacture of substances.
\triangleright	ERC2: Formulation of preparations.
\triangleright	ERC3: Formulation of materials.
	ERC4: Industrial use of processing aids in processes and products, not becoming part of articles.
۶	ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates).
\triangleright	ERC8a: Wide dispersive indoor use of
	processing aids in open systems.
\triangleright	ERC8b: Wide dispersive outdoor use of
	processing aids in open systems.

Abbreviations and acronyms:

ACGIH	The American Conference of Governmental Industrial Hygienists
BAF	Bio Accumulation Factor
BCF	Bio Concentration Factor
CAS No	Chemical Abstracts Service number



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CLP	Classification Labelling Packaging Regulation ; Regulation (EC) No 1272/2008
CSA	Chemical Safety Assessment
CSR	Chemical Safety Report
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
DPD	Dangerous Preparation Directive 1999/45/EEC
DSD	Dangerous Substances Directive 67/548/EEC
DT50	Half life
EC	European Commission
EC50	Half maximal effective concentration
ЕСНА	European Chemicals Agency
EC-Number	EINECS and ELINCS Number (see also EINECS and ELINCS)
EINECS	European Inventory of Existing Commercial Substances
ELINCS	European List of notified Chemical Substances
ES	Exposure Scenario
e-SDS	Extended Safety Data Sheet (SDS with ES attached)
EU	European Union
GHS	Globally Harmonized System
IUPAC	International Union for Pure Applied Chemistry
LC50	Lethal concentration, 50 %
LD50	Median Lethal Dose
OEL	Occupational Exposure Limit
OSHA PEL	Occupational Safety and Health Administration Permissible Exposure Level
PBT	Persistent, Bioaccumulative and Toxic substance
PNEC(s)	Predicted No Effect Concentration(s)
PPE	Personal Protection Equipment
QSAR	Qualitative Structure Activity Relationship
SAR	Structure Activity Relationship
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RMM	Risk Management Measure
STOT	Specific Target Organ Toxicity
(STOT) RE	Repeated Exposure
(STOT) SE	Single Exposure
TLV	Threshold limit value
TWA	Time-Weighted Average
UN	United Nations



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vPvB

Very Persistent and Very Bioaccumulative

Key Literature References and Sources for data:

ACGIH (2008) American Conference of Governmental Industrial Hygienists TLVs and BEIs. Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices. Cincinnati, OH, 2008, p. 10.

ATSDR (1994) TOXICOLOGICAL PROFILE FOR ACETONE, U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES, Public Health Service, Agency for Toxic Substances and Disease Registry, May 1994.

Bingham, E.; Cohrssen, B.; Powell, C.H.; Patty's Toxicology Volumes 1-9 5th ed. John Wiley and Sons. New York, N.Y. (2001)., p 18.

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NTP (1991) NTP REPORT ON THE TOXICITY STUDIES OF ACETONE IN F344/N RATS AND B6C3F1 MICE (DRINKING WATER STUDIES). NATIONAL TOXICOLOGY PROGRAM, NTP TOX 3 NIH Publication No. 913122. U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES, Public Health Service, National Institutes of Health. January 1991.

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Annex I

Exposure Scenarios addressing uses carried out by workers

1.

Intermediate in production of other substances –INDUSTRIAL USE [ES1]		
Free short title:	ES1: Intermediate in production of other substances – INDUSTRIAL USE	
Systematic title based on use descriptor	Sectors of Use:	
	SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites SU 10: Formulation [mixing] of preparations and/or re- packaging (excluding alloys) <u>Product category:</u>	
	PC 19: Intermediate	
Processes, tasks activities covered	PROC 1: Use in closed process, no likelihood of exposure PROC 2: Use in closed, continuous process with occasional controlled exposure PROC 3: Use in closed batch process (synthesis or formulation) PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	
Assessment Method	Qualitative Risk Assessment (Tier I Risk Assessment):	

2. Operational conditions and risk management measures

Occupational Exposure:

OELs currently adopted by the national/regional competent authority shall apply.

International Occupational Exposure Limit values:

Organization	Limit value -8-hour		Limit value- Short-term	
	ppm	mg/m3	ppm	mg/m3
ACGIH (TLV)	TWA	-	750	-

EU Occupational Exposure Limit values:

Value		Critical endpoint/ Comments	Country Threshold type
Acetone	1210 mg/m3	TWA	EU, Indicative Occupational Exposure Limit Values
	(500 ppm)		(Directive 2000/39/CE)



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DNEL/DMEL from the CSR:

The following critical DN(M)ELs are proposed for occupational exposure to acetone:

• Workers exposure: DMEL=1210 mg/m3 (8-hour TWA).

(Note: These values are not legally binding and referred here for recommendation purpose only. All currently adopted by the national/regional competent authority levels on safe exposure to this chemical shall apply).

Environmental Release Characterization:

ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)

2.1 Control of workers exposure	
Product characteristic:	<u>Physical state:</u> Colourless volatile, highly flammable liquid substance.
Risk management measures related to the design of product:	 Avoid inhalation to vapour and mists/ aerosols, skin and eye contact Use Personal Protective Equipment as required. Use in a well ventilated area Keep sparks, flames, and other sources of ignition away. No smoking. Take measures to prevent the build up of electrostatic charge Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink, or smoke during work. Wash hands before eating, after handling the substance, before breaks and at the end of workday. Work clothing that becomes wet should be immediately removed due to its flammability hazard.
Amounts used:	Not specifically defined
Frequency and duration of use/exposure	8-hour work shift, Not specifically defined
Human factors not influenced by risk management	Respiration volume under conditions of use: Heavy work, respiration volume = 30 m3/8h-day; Light work, respiration volume = 10 m3/8h-day - Default values (ECHA Guidance on CSA Chapter R.15, Section R 8.4.2)
Other given operational conditions affecting workers exposure	Appropriate Local Exhaust Ventilation relevant to industrial work environment.
Technical conditions and measures at process level (source) to prevent release:	Occupational exposure may arise at operations where the substance is used, including storage, loading/unloading areas, leaks in the conveyor systems, loading mixers, maintenance and cleaning operations.



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Technical conditions and measures to control dispersion from source towards the worker: 2.2 Control of environmental exposure Product characteristics	 Engineering controls and good work practices; Regular monitoring for leak detection; Use of Respiratory Protection; Protective clothing and equipment; Hazard communication; Housekeeping and Hygiene Facilities. Physical state: Colourless volatile, highly flammable liquid substance.
Amounts used	Not specifically defined
Frequency and duration of use	Not specifically defined 365 d/y Assuming continuous industrial process.
Technical conditions and measures at process level (source) to prevent release	 Engineering controls and good work practices; Regular monitoring for leak detection; Hazard communication; Housekeeping and Hygiene Facilities.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Emissions related measures:Apply all necessary RMM to ensure compliancewith relevant national or regional legislationrequirements.Waste related measures:This substance, when discarded or disposed of, is ahazardous waste. The transportation, storage,treatment, and disposal of the waste material mustbe conducted in compliance with local regulationsfor hazardous wastes.Disposal can occur only in properly permittedfacilities. Check state and local regulation of anyadditional requirements for disposal conditions.
3. Exposure estimation and reference to its sour	ce
Workers exposure:	Occupational exposure may arise at operations where the substance is used, including storage, loading/unloading areas, leaks in the conveyor systems, loading mixers, maintenance and cleaning operations.
4. Guidance to DU to evaluate whether he works	inside the boundaries set by the ES
Workers exposure:	Use in industrial process. Applying all necessary RMM to reduce exposure to acetone and ensure compliance with relevant occupational exposure limits.



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2.

Industrial process solvent –INDUSTRIAL USE [ES2]		
Free short title:	ES2: Industrial process solvent –INDUSTRIAL USE	
Systematic title based on use descriptor	Sectors of Use:SU 3: Industrial uses: Uses of substances as such orin preparations at industrial sitesSU 10: Formulation [mixing] of preparationsand/or re-packaging (excluding alloys)Product category:Not specified	
Processes, tasks activities covered	PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC7: Industrial Spraying PROC8b: Transfer of substance or preparation (charging/ discharging) from/to vessels/large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring	
Assessment Method	Qualitative Risk Assessment (Tier I Risk Assessment):	

2. Operational conditions and risk management measures



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Occupational Exposure:

OELs currently adopted by the national/regional competent authority shall apply.

International Occupational Exposure Limit values:

Organization	Critical endpoint/ Comments		Limit value- Short-term	
	ppm	mg/m3	ppm	mg/m3
ACGIH (TLV)	TWA	-	750	-

EU Occupational Exposure Limit values:

Value		Critical endpoint/ Comments	Country Threshold type
Acetone	1210 mg/m3	TWA	EU, Indicative Occupational
			Exposure Limit Values
	(500 ppm)		(Directive 2000/39/CE)

DNEL/DMEL from the CSR:

The following critical DN(M)ELs are proposed for occupational exposure to acetone:

• Workers exposure: DMEL=1210 mg/m3 (8-hour TWA).

(Note: These values are not legally binding and referred here for recommendation purpose only. All currently adopted by the national/regional competent authority levels on safe exposure to this chemical shall apply).

Environmental Release Characterization:

ERC1:Manufacture of substances ERC2: Formulation of preparations ERC3: Formulation of materials ERC4: Industrial use of processing aids in processes and products, not becoming part of articles.

2.1 Control of workers exposure

Product characteristic:	Physical state: Colourless volatile, highly flammable
	liquid substance.



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Risk management measures related to the design of product:	 Avoid inhalation to vapour and mists/ aerosols, skin and eve contact.
	 Use Personal Protective Equipment as required. Use in a well ventilated area
	 Keep sparks, flames, and other sources of
	ignition away. No smoking. Take measures to prevent the build up of electrostatic charge.
	• Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink, or smoke during work. Wash hands before eating, after handling the substance, before breaks and at the end of workday.
	 Work clothing that becomes wet should be immediately removed due to its flammability hazard.
Amounts used:	Not specifically defined
Frequency and duration of use/exposure	8-hour work shift, Not specifically defined
Human factors not influenced by risk management	Respiration volume under conditions of use: Heavy work, respiration volume = 30 m3/8h-day; Light work, respiration volume = 10 m3/8h-day - Default values (ECHA Guidance on CSA Chapter R.15, Section R 8.4.2)
Other given operational conditions affecting workers exposure	Appropriate Local Exhaust Ventilation relevant to industrial work environment
Technical conditions and measures at process level (source) to prevent release	Occupational exposure may arise at operations where the substance is used, including storage, loading/unloading areas, leaks in the conveyor systems, loading mixers, maintenance and cleaning operations.
Technical conditions and measures to control dispersion from source towards the worker:	 Engineering controls and good work practices; Regular monitoring for leak detection; Use of Respiratory Protection;
	 Protective clothing and equipment; Hazard communication;
	 Housekeeping and Hygiene Facilities.
2.2 Control of environmental exposure	
Product characteristics	<u>Physical state:</u> Colourless volatile, highly flammable liquid substance.
Amounts used	Not specifically defined
Frequency and duration of use	Not specifically defined 365 d/y Assuming continuous industrial process.
Technical conditions and measures at process level (source) to prevent release	 Engineering controls and good work practices; Regular monitoring for leak detection; Hazard communication:
	Housekeeping and Hygiene Facilities.



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Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	<u>Emissions related measures:</u> Apply all necessary RMM to ensure compliance with relevant national or regional legislation requirements.
	<u>Waste related measures:</u> This substance, when discarded or disposed of, is a hazardous waste. The transportation, storage, treatment, and disposal of the waste material must be conducted in compliance with local regulations for hazardous wastes.
	Disposal can occur only in properly permitted facilities. Check state and local regulation of any additional requirements for disposal conditions.
3. Exposure estimation and reference to its sourc	e
Workers exposure:	Occupational exposure may arise at operations where the substance is used, including storage, loading/unloading areas, leaks in the conveyor systems, loading mixers, maintenance and cleaning operations.
4. Guidance to DU to evaluate whether he works i	inside the boundaries set by the ES
Workers exposure:	Use in industrial process. Applying all necessary RMM to reduce exposure to acetone and ensure compliance with relevant occupational exposure limits.

3.

Formulating component in manufacture of preparations –INDUSTRIAL USE [ES3]		
Free short title:	ES3: Use as formulating component in manufacture of preparations – INDUSTRIAL USE	
Systematic title based on use descriptor	Sectors of Use:	
	SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)	
	Product category:	
	Not specifically defined.	
	Market sector by type of chemical product:	
	PC1: Adhesives, sealants	



Sales department:

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	 PC9a: Coatings and paints, thinners, paint removers. PC18:Ink and toners PC23: Leather tanning, dye, finishing, impregnation and care products PC26: Paper and board dye, finishing and impregnation products: including bleaches and other processing aids; PC34: Textyle dyes, finishing and impregnating products; including bleaches and other processing aids. PC35: Washing and cleaning products (including solvent based products) PC40: Extraction agents
Processes, tasks activities covered	PROC 3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
Assessment Method	Qualitative Risk Assessment (Tier I Risk Assessment):

2. Operational conditions and risk management measures

Occupational Exposure:

OELs currently adopted by the national/regional competent authority shall apply.

International Occupational Exposure Limit values:

Organization	Limit value -8-hour		Limit value – Short-term	
	ppm	mg/m3	ppm	mg/m3
ACGIH (TLV)	500 ppm	-	750	-

EU Occupational Exposure Limit values:

Value		Critical endpoint/ Comments	Country Threshold type
Acetone	1210 mg/m3	TWA	EU, Indicative Occupational
			Exposure Limit Values
	(500 ppm)		(Directive 2000/39/CE)

DNEL/DMEL from the CSR:

The following critical DN(M)ELs are proposed for occupational exposure to acetone:

• Workers exposure: DMEL=1210 mg/m3 (8-hour, TWA).



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(Note: These values are not legally binding and referred here for recommendation purpose only. All currently adopted by the national/regional competent authority levels on safe exposure to this chemical shall apply).

Environmental Release Characterization: ERC2: Formulation of preparations ERC3: Formulation of materials

2.1 Control of workers exposure

Product characteristic:	<u>Physical state:</u> Colourless volatile, highly flammable liquid substance.
Risk management measures related to the design of product:	 Avoid inhalation to vapour and mists/ aerosols, skin and eye contact Use Personal Protective Equipment as required. Use in a well ventilated area Keep sparks, flames, and other sources of ignition away. No smoking. Take measures to prevent the build up of electrostatic charge. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink, or smoke during work. Wash hands before eating, after handling the substance, before breaks and at the end of workday. Work clothing that becomes wet should be immediately removed due to its flammability harand
Amounts used:	Not specifically defined



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Frequency and duration of use/exposure	8-nour work shift, Not specifically defined
Human factors not influenced by risk management	Respiration volume under conditions of use: Heavy
	work, respiration volume = $30 \text{ m}^3/8\text{h}$ -day; Light
	work, respiration volume = $10 \text{ m}_3/80$ -day - Default
	Section R 8 4 2)
Other given operational conditions affecting	Appropriate Local Exhaust Ventilation relevant to
workers exposure	industrial work environment
Tachnical conditions and massures at process lovel	Occupational exposure may arise at experisions
(source) to prevent release	where the substance is used including storage
(source) to prevent release.	loading/unloading areas. leaks in the conveyor
	systems, loading mixers, maintenance and cleaning
	operations.
Technical conditions and measures to control	Engineering controls and good work practices;
dispersion from source towards the worker:	Regular monitoring for leak detection;
	Use of Respiratory Protection;
	• Protective clothing and equipment;
	Hazard communication;
	Housekeeping and Hygiene Facilities
2.2 Control of environmental exposure	
Product characteristics	Physical state: Colourless volatile highly flammable
	liquid substance.
Amounts used	Not specifically defined
Frequency and duration of use	Not specifically defined
1 5	365 d/y Assuming continuous industrial process.
Technical conditions and measures at process level	Engineering controls and good work practices;
(source) to prevent release	Regular monitoring for leak detection;
	Hazard communication;
	Housekeeping and Hygiene Facilities.
Technical onsite conditions and measures to	Emissions related measures:
reduce or limit discharges, air emissions and	Apply all necessary RMM to ensure compliance with
releases to soil	relevant national or regional legislation
	requirements.
	Waste related measures
	This substance, when discarded or disposed of is a
	hazardous waste. The transportation, storage,
	treatment, and disposal of the waste material must
	be conducted in compliance with local regulations
	for nazaruous wastes.
	Disposal can occur only in properly permitted
	facilities. Check state and local regulation of any
	additional requirements for disposal conditions.
3. Exposure estimation and reference to its source	се



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Workers exposure:	Occupational exposure may arise at operations where the substance is used, including storage, loading/unloading areas, leaks in the conveyor systems, loading mixers, maintenance and cleaning operations.
4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES	
Workers exposure:	Use in industrial process. Applying all necessary RMM to reduce exposure to acetone and ensure compliance with relevant occupational exposure limits.

Annex II

IPCS directory of poison	centres: European Region
Info from the International Programme on Chemical Safety (IPCS) publicly available at http://www.who.int/ipcs/poisons/centre/directory/euro/en/ (data retrieved in November 2010)	
Austria	Vienna Wien
	Vergiftungsinformationszentrale (Poisons
Telephone: +43 1 40 400 2222	Information Centre)
	Allgemeines KrankenhausWaehringer Geurtel 18-
	20 Vienna 1090
Belgium	Brussels Bruxelles
	Centre Anti-Poisons/Antigifcentrum
Emergency telephone: +32 70 245 245	Hôpital Militaire Reine Astrid
	Rue Bruyn
	Brussels B -1120
Bulgaria	Sofia
	National Toxicological Information Centre
Emergency telephone: +359 2 9154 409	National Clinical Toxicology Centre
	Emergency Medical Institute "Pirogov"
	21 Totleben Boulevard
	1606 SOFIA
	Information Centre: Telephone: +359 2 950 0975
Croatia	Zagreb
	Poisons Control Centre
Emergency telephone: +385 1 234 8342	Institute of Medical Research & Occupational
	Health
	Ksaverska Cesta 2
	P.O. Box 291
	Zagreb HR-10000
Czech Republic	Prague Praha
	Poisons Information Centre
Emergency telephone: +42 2 2491 9293 or +42 2	Clinic For Occupational Medicine, 1st Medical
2491 5402	Faculty, Charles University
	Na Bojisti 1
	128 00 Prague 2



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Denmark	Copenhagen
	Poison Information Centre
Emergency telephone, health sector: +45 35 31 55	Bispebjerg Hospital
55	Bispebjerg Bakke 23, 60, 1
Emergency telephone, public: +45 82 12 12 12	DK-2400 Copenhagen NV
Finland	Helsinki
	Poison Information Centre
Emergency telephone: +358 9 471 977	P.O.B 790 (Tukholmankatu 17)
	SF - 00029 HUS
	Helsinki
France	Paris
	Centre Antipoison et de Toxicovigilance de Paris
Emergency telephone: +33 1 40 05 48 48	Hôpital Fernand Widal
	200 rue du Faubourg Saint-Denis
	75475 Paris Cedex 10
Germany	Giftnotruf Berlin
	Berliner Betrieb für Zentrale Gesundheitliche
Emergency telephone: +49 30 19240	Aufgaben

	Institut für Toxikologie Klinische Toxikologie und Giftnotruf Berlin Oranienburger Strasse 285
	13437 Berlin
Greece	Athens Athinai
	Poisons Information Centre
Emergency telephone: +30 10 779 3777	Children's Hospital "Aglaia. Kyriakou"
	Athens 11527
Hungary	Budapest
	Országos Kémiai Biztonsági Intézet (National
Emergency telephone number: +36 80 20 11 99	Institute of Chemical Safety)
	Egészségügyi Toxikológiai Tájékoztató Szolgálat
	(Health Toxicological Information Service)
	1097 Budapest, Nagyvárad tér 2. 1437
	Budapest PO Box 839
Iceland	Reykjavik
	Iceland Poisons Information Centre
Emergency telephone: +354 525 111, +354 543	Landspitali University Hospital
2222	Fossvogi
	Reykjavik 108
Ireland (Republic of)	Dublin
	National Poisons Information Centre
Emergency telephone: +353 1 8379964	Beaumont Hospital
	P.O. BOX 1297
	Beaumont Road
	Dublin 9



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Israel Emergency telephone: +972 4 854 1900	Haifa Israel Poisons Information Centre Rambam Medical Centre PO Box 9602 Haifa 31096
Italy Emergency telephone: +39 06 305 4343	Rome Roma Centro Antiveleni (Poisons Centre) Dipartimento di Tossicologia Clinica Universita Cattolica del Sacro Cuore Largo Agostino Gemelli 8 I-00168 Roma
Latvia Emergency telephone: +371 704 2468	Riga Latvian Poisons Information Centre Clinical Hospital "Gailezers" 2 Hipocrate Street Riga LV 1038
Lithuania Emergency telephone: +370 2 36 20 52, +370 2 36 20 92	Vilnius Poisons Control and Information Bureau Siltnamiu 29 2043 Vilnius
Netherlands Emergency telephone: +31 30 274 88 88	Bilthoven this service is only available to health professionals National Poisons Information Centre National Institute for Public Health and the Environment P.O. Box 1
Norway Emergency telephone: +47 22 591300	Oslo Poisons Information Directorate of Health and Social Affairs P.O. Box 7000 St. Olavs Plass 0130 Oslo
Norway Emergency telephone: +47 22 591300 Poland Emergency telephone: +48 22 619 66 54; +48 22 619 08 97	Oslo Poisons Information Directorate of Health and Social Affairs P.O. Box 7000 St. Olavs Plass 0130 Oslo Warsaw Warszawa Warsaw Poison Control and Information Centre Praski Hospital Al. Solidarnosci 67 P-03 401 Warszawa
Norway Emergency telephone: +47 22 591300 Poland Emergency telephone: +48 22 619 66 54; +48 22 619 08 97 Portugal Emergency telephone: 808 250 143 (for use only in Portugal), +351 21 330 3284	Oslo Poisons Information Directorate of Health and Social Affairs P.O. Box 7000 St. Olavs Plass 0130 Oslo Warsaw Warszawa Warsaw Poison Control and Information Centre Praski Hospital Al. Solidarnosci 67 P-03 401 Warszawa Lisbon Lisboa Centro de Informação Antivenenos – Dra Arlinda Borges Instituto Nacional de Emergência Médica (INEM) Rua Almirante Barroso, 36 1000-013 Lisboa
Norway Emergency telephone: +47 22 591300 Poland Emergency telephone: +48 22 619 66 54; +48 22 619 08 97 Portugal Emergency telephone: 808 250 143 (for use only in Portugal), +351 21 330 3284 Romania	Oslo Poisons Information Directorate of Health and Social Affairs P.O. Box 7000 St. Olavs Plass 0130 Oslo Warsaw Warszawa Warsaw Warszawa Warsaw Poison Control and Information Centre Praski Hospital Al. Solidarnosci 67 P-03 401 Warszawa Lisbon Lisboa Centro de Informação Antivenenos – Dra Arlinda Borges Instituto Nacional de Emergência Médica (INEM) Rua Almirante Barroso, 36 1000-013 Lisboa Department of Clinical Toxicology



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	Bucharest
Slovakia	Bratislava
	National Toxicological Information Centre
Emergency telephone: +421 2 54 77 4 166	University Hospital Bratislava
	Limbová 5
	833 05 Bratislava
Slovenia	Ljubljana
	Poison Centre
Emergency telephone: + 386 41 650 500	Division of Internal Medicine
	University Clinical Centre Zaloska 7,
	1525 Ljubljana
Spain	Madrid
	Servicio de Información Toxicológica
Emergency telephone: +34 91 562 04 20	Instituto Nacional de Toxicología
	Departamento de Madrid
	Calle Luis Cabrera 9
	E-28002 Madrid
Sweden	Stockholm
	Giftinformationscentralen (Swedish Poisons
Emergency telephone: +46 8 33 12 31	Information Centre)
(International) 112 (National)	Karolinska Hospital
	SE-171 76 Stockholm
Switzerland	Zurich
	Centre Suisse d'Information Toxicologique
Emergency telephone: +41 44 251 5151	(Swiss Toxicological Information Centre)
	Freiestrasse 16
	CH-8032
	Zurich
United Kingdom	The UK National Poisons Emergency number is
	0870 600 6266 (Outside the UK: +44 870 600
	6266)
NOTE: The list of emergency telephone numbers is provided here for reference only. It may not be complete or correct. Please, consult with your local/national competent authorities for the emergency number in your country.	