

Kind Customer

We send you the documentation concerning the product supplied: **DILUENTE 01**

- Information letter concerning Regulation (EU) 2019/1148 on the marketing and use of explosives precursors
- Material Safety Data Sheet

For further information and clarifications, please contact us at [safety@kerakoll.com](mailto:safety@kerakoll.com)

Best regards,

**kerakoll**  
Kerakoll Spa - via dell'Artigianato 9  
41049 Sassuolo (MO) Italia  
C.F./P.I. 01174510360

Esteemed Customer

Sassuolo, 19/04/2024

## **Object: provisions of Regulation (EU) 2019/1148 concerning the marketing (including online) and use of Explosives Precursors starting from February 1, 2021**

Kind Customer,

we hereby inform you that starting from 1st of February 2021, provisions of EU 2019/1148 Regulation inherent to Explosive Precursors will be applied. This new legislation aims to reinforce the system of controlling the availability on the market of Explosive Precursor, in order to limit the availability of certain substances for private consumers and to guarantee the adequate reporting of suspicious transactions. Substances included in the field of application are listed in the respective annex of the regulation:

- Annex I – Explosive Precursors subject to RESTRICTION
- Annex II - Explosive Precursors subject to SEGNALE

The legislations is applied to pure substances and to mixtures containing those components (depending from the concentration) and the fulfilments of the requirements for each subjects involved in the supply chain are dependent from the type of precursors.

Within the product supplied from us, there are not precursors subject to restriction.

### **REGULATED PRECURSORS**

To date, the product **DILUENTE 01** that we supply, contains the following substance included in the precursors list: **Acetone N° CAS 67-64-1**

A regulated explosive precursor:

- is available for a professional user or for a private consumer if it is possible to demonstrate to the national authority in charge of inspections, that the staff involved in sales is:

- a) Aware of which of the marketed products contains regulated explosive precursors;
- b) Educated about the obligation set by the legislation.

- is available to an economic operator only after informing it that that the acquisition, introduction, detention or the use by private consumers is subject to reporting (see next point).

### **Reporting of suspicious transaction, shipments, disappearances and thefts**

Economic operators and online markets must report suspicious transactions, after considering all circumstances, especially in case that the customer acts as follow:

- a) He is not able to give accurate description of the predicted use of explosive precursors
- b) He seems to be unrelated to the predicted use of the regulated explosive precursor or he cannot explain it in a reasonable way.
- c) He has the intention of buying regulated explosive precursors in an unusual quantity, combination or concentration for a legit use.
- d) He is reluctant to give a document to validate his identity, place of residence or the status of professional user or of economic operator
- e) He insists on using an unusual payment method, like large amount of cash for instance.

Economic operators and on-line markets may reject the suspicious transaction and they can report it within 24 hours to the national point of contact of the member state where the transaction was made or attempted.

Economic operators and professional users report to the national contact point of the member state, disappearances and significant thefts of regulated explosive precursors within 24 hours from the detection.

## CONTACT POINTS:

- AUSTRIA: Bundeskriminalamt - Meldestelle Drogenausgangsstoffe; E-mail: [Precursor@bmi.gv.at](mailto:Precursor@bmi.gv.at); Tel. +43 1 24836 985372
- BELGIUM: Federale politie - Police fédérale - Föderale Polizei; [explosiveprecursor@police.belgium.eu](mailto:explosiveprecursor@police.belgium.eu) ; Tel.: 00 32 26 42 63 20 (24h/24h); Tel Duty Officer: 00 32 475 29 28 88 (24h/24h)
- BULGARIA: Министерство на вътрешните работи; тел. (+359) 2 9828 336 тел. (+359) 2 9828 106; [gdbop@mvr.bg](mailto:gdbop@mvr.bg)
- CROATIA: Ministarstvo unutarnjih poslova, Ravnateljstvo policije; Email: [prekursori@mup.hr](mailto:prekursori@mup.hr) ; Tel: +38513788776
- CYPRUS: Αρχηγείο Αστυνομίας; Telephone1: + 357 22 808262 (during office hours) Telephone2: +357 99 629353 (available 24/7); [deptc.cto@police.gov.cy](mailto:deptc.cto@police.gov.cy)
- CZECH REPUBLIC: Český báňský úřad; email: [Info@cbusbs.cz](mailto:Info@cbusbs.cz) ; tel. +420 721 329 137; Policie - National Organized Crime Agency tel.: +420 974 842 333 E-mail: [ncoz.t4@pcr.cz](mailto:ncoz.t4@pcr.cz); [ncoz.nkbt.info@pcr.cz](mailto:ncoz.nkbt.info@pcr.cz);
- DENMARK: National Situation and Operations Centre; email: [pol-nsioc@politi.dk](mailto:pol-nsioc@politi.dk); tel: +4545153400
- ESTONIA: Politsei- ja Piirivalveamet; Phone: +372 612 3810 and 112; E-mail: [spoc@politsei.ee](mailto:spoc@politsei.ee)
- FINLAND: Keskusrikospoliisi; Tel. +358 504 177 229; E-mail: [lahtoaine.krp@poliisi.fi](mailto:lahtoaine.krp@poliisi.fi)
- FRANCE: Pôle judiciaire de la Gendarmerie nationale; Plateau d'investigation Armes à feu et explosifs (PIXAF); Adresse mail : [pixaf@gendarmerie.interieur.gouv.fr](mailto:pixaf@gendarmerie.interieur.gouv.fr); Téléphone : +33 1 78 47 34 29
- GERMANY: Landeskriminalamt; Emergency line: 110
  - Baden-Württemberg, 0711/5401-3333, [stuttgart.lka@polizei.bwl.de](mailto:stuttgart.lka@polizei.bwl.de)
  - Bayern, 089/1212-0, [blka@polizei.bayern.de](mailto:blka@polizei.bayern.de)
  - Berlin, 030/4664-950130, [lka5fuedsteuerung@polizei.berlin.de](mailto:lka5fuedsteuerung@polizei.berlin.de)
  - Brandenburg, 03334/388-0, [monitoring.fdlka@polizei.brandenburg.de](mailto:monitoring.fdlka@polizei.brandenburg.de)
  - Bremen, 0421/362-3888, [landeskriminalamt@polizei.bremen.de](mailto:landeskriminalamt@polizei.bremen.de)

- Hamburg, 040/4286-72610, lkahh26.kkvd@polizei.hamburg.de
- Hessen, 0611/83-1186, ful.hlka@polizei.hessen.de
- Mecklenburg-Vorpommern, 03866/64-9003, [lka@polmv.de](mailto:lka@polmv.de)
- Niedersachsen, 0511/26262-0, liz@lka.polizei.niedersachsen.de
- Nordrhein-Westfalen, 0211/939-0, poststelle.lka@polizei.nrw.de
- Rheinland-Pfalz, 06131/65-2350, lka.21.1dd@polizei.rlp.de
- Saarland, 0681/962-2133, lpp212@polizei.slpol.de
- Sachsen, 0351/855-0, lka@polizei.sachsen.de
- Sachsen-Anhalt, 0391/250-0, lka@polizei.sachsen-anhalt.de
- Schleswig-Holstein, 0431/160-0, lob.glfs@polizei.landsh.de
- Thüringen, 0361/341-1224, auswertung.lka@polizei.thueringen.de

- GREECE: Ελληνική Αστυνομία; Tel: +302106914916; email: dka\_opla@police.gr
- HUNGARY: National Police Headquarters; Tel.: 061/443-5500; Tel. 107; Tel. 112; Email: orfktitkarsag@orfk.police.hu;
- IRELAND: An Garda Síochána; Phone: +353 1 6661782 (office hours); or Garda 24hr Confidential Line: 1800 666 111; or 999 or 112 (in the event of a serious or imminent threat); Email: Liaisonandprotection\_DV@garda.ie
- ITALY: Ministero dell'Interno; Tel.: +390646542182; precursori@dcpc.interno.it
- LATVIA: Valsts drošības dienests; Tel. (+371) 67208964; E-mail: kontaktpunkts@vdd.gov.lv
- LITHUANIA: Policijos Departamentas, Prie vidaus reikalų ministerijos; Phone +370 5 271 9949; email: leidimai.pd@policija.lt
- LUXEMBOURG: Police grand-ducale; Direction générale – Service des relations internationales; Point de contact central – INTERPOL – EUROPOL – SIRENE; Courriel : sri@police.etat.lu; Tel : (+352) 4997-2575; Fax : (+352) 4997-2598
- MALTA: Competition and Consumer Affairs Authority; Tel. (+356) 23952000; Fax : (+356) 21242420; E-mail: info@mccaa.org.mt
- NETHERLANDS: Meldpunt Verdachte Transacties Chemicaliën; Belastingdienst / Nationale politie; Tel. 0031 88 154 00 00 (24/7); E-mail: precursoren@belastingdienst.nl (08-17 hrs)
- NORWAY: Den nasjonale enhet for bekjempelse av organisert og annen alvorlig kriminalitet (Kripos); Tel. + 47 23 20 80 10; E-mail: krios.kjemiskestoffer@politiet.no
- POLAND: Komenda Główna Policji; Puławska 148/150, 02-624; Warszawa tel. +48 226 012 012 tel; +48 22 60 116 40; e-mail: prekursor@policja.gov.pl
- Ministério da Administração Interna - Polícia de Segurança Pública; tlf: +351 218111000; Fax: + 351 21 3874772; E-mail: depaex@psp.pt
- ROMANIA: Poliția Română; Tel . +4021/312.78.20; e-mail: anne@politiaromana.ro
- SLOVAKIA: Ministerstvo vnútra; Tel . 00421 - 2/9610 56201; E-mail: prekurzoryvybusnin@minv.sk

- SLOVENIA: Ministrstvo za notranje zadeve – POLICIJA; [interpol.ljubljana@policija.si](mailto:interpol.ljubljana@policija.si); T. +386 1 428 4780; T. +386 41 713 680; T. +386 41 713 699; Fax. +386 1 428 4790
- SPAIN: Ministerio del Interior - Centro de Inteligencia contra el Terrorismo y el Crimen Organizado (CITCO) Tel. +34 91 537 27 66 Tel. +34 91 537 27 26 Tel. +34 91 537 27 33; E-mail: [cico@interior.es](mailto:cico@interior.es); E-mail: [precursores@interior.es](mailto:precursores@interior.es) SWEDEN: Polismyndigheten; Tel. 114 14 (+46 77 114 14 00 from abroad); E-mail: [prekursor@polisen.se](mailto:prekursor@polisen.se)
- SWITZERLAND: Federal Office of Police – fedpol; National Contact Point for Explosives Precursors; Phone: +41 58 460 52 10; Email: [chemicals@fedpol.admin.ch](mailto:chemicals@fedpol.admin.ch)
- UNITED KINGDOM – GREAT BRITAIN: Metropolitan Police Service; Tel. 0207 230 9066; Tel. 0207 2308850; E-mail: [Chemical.Reporting@Met.Police.UK](mailto:Chemical.Reporting@Met.Police.UK)
- UNITED KINGDOM – NORTHERN IRELAND: Police Service of Northern Ireland; Tel. 0800 789 321; Email: [Chemical.reporting@psni.pnn.police.uk](mailto:Chemical.reporting@psni.pnn.police.uk)

The information about the presence of regulated explosive precursors has to be extended along the supply chain, by sending the Material Safety Data Sheet of the product.

## Sanctions

Anyone who, without being entitled, introduces into the State territory, holds, uses or makes available to private individuals the substances or mixtures that contain them indicated as precursors of explosives subject to restriction in Annex I and anyone who fails to report the theft or the disappearance of the substances indicated as precursors of regulated explosives included in Annexes I and II, is punished with the sanctions provided by the reference State.

Kind Regards,

## Safety Data Sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH), Article 31, Annex II, as amended by Commission Regulation (EU) 2020/878

### DILUENTE 01

Date of first edition: 6/8/2021

Safety Data Sheet dated 18/04/2024

version 4

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

### 1.1. Product identifier

Mixture identification:

Trade name: DILUENTE 01

Trade code: 23102020 5

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

Recommended use: Paint removers, thinners and related auxiliaries

Uses advised against: All uses other than recommended ones

### 1.3. Details of the supplier of the safety data sheet

Company: KERAKOLL S.p.A.

Via dell'Artigianato, 9

41049 Sassuolo (MODENA) - ITALY

Tel. +39 0536 816511 Fax. +39 0536816581

safety@kerakoll.com

### 1.4. Emergency telephone number

European emergency phone number 112 Kerakoll Italy - +39-0536-816511 Ireland Poison information centre: 01 809 2166 (Daily 8am-10pm) In case of emergency call 999 or 112 Malta In case of emergency call: +356 2395 2000 (24h)

## SECTION 2: Hazards identification



### 2.1. Classification of the substance or mixture

#### Regulation (EC) n. 1272/2008 (CLP)

Flam. Liq. 2	Highly flammable liquid and vapour.
Skin Irrit. 2	Causes skin irritation.
Eye Irrit. 2	Causes serious eye irritation.
STOT SE 3	May cause respiratory irritation.
STOT SE 3	May cause drowsiness or dizziness.
STOT RE 2	May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1	May be fatal if swallowed and enters airways.

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

#### Regulation (EC) No 1272/2008 (CLP):

#### Hazard pictograms and Signal Word



Danger

#### Hazard statements

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

- H336

May cause drowsiness or dizziness.
- H373

May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

- P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P260

Do not breathe vapours.
- P280

Wear protective gloves and eye protection.
- P301+P310

IF SWALLOWED: Immediately call a POISON CENTER.
- P331

Do NOT induce vomiting.
- P370+P378

In case of fire, use a dry powder fire extinguisher to extinguish.

Contains

Reaction mass of ethylbenzene and m-xylene and p-xylene

Acetone  
ethyl acetate

Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: DILUENTE 01

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
≥20-<50 %	Reaction mass of ethylbenzene and m-xylene and p-xylene	EC:905-562-9	Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Asp. Tox. 1, H304; STOT RE 2, H373	01-2119555267-33
≥20-<50 %	Acetone	CAS:67-64-1 EC:200-662-2 Index:606-001-00-8	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	01-2119471330-49
≥10-<20 %	ethyl acetate	CAS:141-78-6 EC:205-500-4 Index:607-022-00-5	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	01-2119475103-46

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

- Immediately take off all contaminated clothing.
- Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.
- Wash thoroughly the body (shower or bath).
- Remove contaminated clothing immediatley and dispose off safely.
- After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

- Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

- In case of inhalation, consult a doctor immediately and show him packing or label.

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

Eye irritation  
Eye damages  
Skin Irritation  
Erythema

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

Suitable extinguishing media:

CO2 or Dry chemical fire extinguisher.

Extinguishing media which must not be used for safety reasons:

Water.

#### **5.2. Special hazards arising from the substance or mixture**

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

#### **5.3. Advice for firefighters**

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

##### **For non emergency personnel:**

Wear personal protection equipment.

Remove all sources of ignition.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

##### **For emergency responders:**

Wear personal protection equipment.

#### **6.2. Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

#### **6.3. Methods and material for containment and cleaning up**

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

#### **6.4. Reference to other sections**

See also section 8 and 13

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### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

##### **Advice on general occupational hygiene:**

#### **7.2. Conditions for safe storage, including any incompatibilities**

Store in closed containers and in a well-ventilated place.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

### 7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Community Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
Acetone CAS: 67-64-1	NATIONAL	AUSTRALIA	Long Term: 1185 mg/m <sup>3</sup> - 500 ppm (8h); Short Term: 2375 mg/m <sup>3</sup> - 1000 ppm
	ACGIH		Long Term: 250 ppm (8h); Short Term: 500 ppm A4, BEI - URT and eye irr, CNS impair
	EU		Long Term: 1210 mg/m <sup>3</sup> - 500 ppm (8h)
	NATIONAL	AUSTRIA	Long Term: 1200 mg/m <sup>3</sup> - 500 ppm; Short Term: 4800 mg/m <sup>3</sup> - 2000 ppm 15(Miw), 4x, MAK Source: GKV, BGBl. II Nr. 156/2021
	NATIONAL	BULGARIA	Long Term: 600 mg/m <sup>3</sup> ; Short Term: 1400 mg/m <sup>3</sup> Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.
	NATIONAL	CZECHIA	Long Term: 800 mg/m <sup>3</sup> ; Short Term: Ceiling - 1500 mg/m <sup>3</sup> Source: Nařízení vlády č. 361-2007 Sb
	NATIONAL	DENMARK	Long Term: 600 mg/m <sup>3</sup> - 250 ppm E Source: BEK nr 2203 af 29/11/2021
	NATIONAL	ESTONIA	Long Term: 1210 mg/m <sup>3</sup> - 500 ppm Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105
	NATIONAL	FINLAND	Long Term: 1200 mg/m <sup>3</sup> - 500 ppm; Short Term: 1500 mg/m <sup>3</sup> - 630 ppm Source: HTP-ARVOT 2020
	NATIONAL	FRANCE	Long Term: 1210 mg/m <sup>3</sup> - 500 ppm; Short Term: 2420 mg/m <sup>3</sup> - 1000 ppm Source: INRS outil65, article R. 4412-149 du Code du travail
	NATIONAL	GREECE	Long Term: 1780 mg/m <sup>3</sup> ; Short Term: 3560 mg/m <sup>3</sup> Source: ΦΕΚ 94/Α` 13.5.1999
	NATIONAL	HUNGARY	Long Term: 1210 mg/m <sup>3</sup> i, EU[1], N Source: 5/2020. (II. 6.) ITM rendelet
	NATIONAL	LITHUANIA	Long Term: 1210 mg/m <sup>3</sup> - 500 ppm; Short Term: 2420 mg/m <sup>3</sup> - 1000 ppm Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389
	NATIONAL	NETHERLANDS	Long Term: 1210 mg/m <sup>3</sup> ; Short Term: 2420 mg/m <sup>3</sup> Source: Arbeidsomstandighedenregeling - Lijst A
	NATIONAL	NORWAY	Long Term: 295 mg/m <sup>3</sup> - 125 ppm E Source: FOR-2021-06-28-2248
	NATIONAL	POLAND	Long Term: 600 mg/m <sup>3</sup> ; Short Term: 1800 mg/m <sup>3</sup> Source: Dz.U. 2018 poz. 1286
	NATIONAL	SLOVAKIA	Long Term: 1210 mg/m <sup>3</sup> - 500 ppm 7) Source: 355 NARIADENIE VLÁDY z 10. mája 2006
	NATIONAL	SWEDEN	Long Term: 600 mg/m <sup>3</sup> - 250 ppm; Short Term: 1200 mg/m <sup>3</sup> - 500 ppm V Source: AFS 2021:3
	NATIONAL	BELGIUM	Long Term: 594 mg/m <sup>3</sup> - 246 ppm; Short Term: 1187 mg/m <sup>3</sup> - 492 ppm Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
	NATIONAL	CROATIA	Long Term: 1210 mg/m <sup>3</sup> - 500 ppm Source: 2000/39/EZ
	NATIONAL	CYPRUS	Long Term: 1210 mg/m <sup>3</sup> - 500 ppm

δέρμα

Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί του 2001 έως 2021

NATIONAL	GERMANY	Long Term: 1200 mg/m <sup>3</sup> - 500 ppm AGS, DFG, EU, Y, 2(I) Source: TRGS 900
NATIONAL	IRELAND	Long Term: 1210 mg/m <sup>3</sup> - 500 ppm IOELV Source: 2021 Code of Practice
NATIONAL	ITALY	Long Term: 1210 mg/m <sup>3</sup> - 500 ppm Source: D.lgs. 81/2008, Allegato XXXVIII
NATIONAL	LATVIA	Long Term: 1210 mg/m <sup>3</sup> - 500 ppm Source: KN325P1
NATIONAL	LUXEMBOUR G	Long Term: 1210 mg/m <sup>3</sup> - 500 ppm Source: Mémorial A n.226 du 22 mars 2021
NATIONAL	MALTA	Long Term: 1210 mg/m <sup>3</sup> - 500 ppm Source: S.L.424.24
NATIONAL	PORTUGAL	Long Term: 1210 mg/m <sup>3</sup> - 500 ppm Source: Decreto-Lei n.º 1/2021
NATIONAL	ROMANIA	Long Term: 1210 mg/m <sup>3</sup> - 500 ppm Dir. 2000/39 Source: Republicarea 1 - nr. 743 din 29 iulie 2021
NATIONAL	SLOVENIA	Long Term: 1210 mg/m <sup>3</sup> - 500 ppm; Short Term: 2420 mg/m <sup>3</sup> - 1000 ppm Y, BAT, EU1 Source: UL št. 72, 11. 5. 2021
NATIONAL	SPAIN	Long Term: 1210 mg/m <sup>3</sup> - 500 ppm VLB®, VLI Source: LEP 2022
ethyl acetate CAS: 141-78-6	NATIONAL	AUSTRIA Long Term: 734 mg/m <sup>3</sup> - 200 ppm; Short Term: 1468 mg/m <sup>3</sup> - 400 ppm 15(Miw), 4x, MAK Source: BGBl. II Nr. 156/2021
	NATIONAL	BULGARIA Long Term: 734 mg/m <sup>3</sup> - 200 ppm; Short Term: 1468 mg/m <sup>3</sup> - 400 ppm Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.
	NATIONAL	CZECHIA Long Term: 700 mg/m <sup>3</sup> ; Short Term: Ceiling - 900 mg/m <sup>3</sup> I Source: Nařízení vlády č. 361-2007 Sb
	NATIONAL	DENMARK Long Term: 540 mg/m <sup>3</sup> - 150 ppm E Source: BEK nr 2203 af 29/11/2021
	NATIONAL	ESTONIA Long Term: 500 mg/m <sup>3</sup> - 150 ppm; Short Term: 1100 mg/m <sup>3</sup> - 300 ppm Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105
	NATIONAL	FINLAND Long Term: 730 mg/m <sup>3</sup> - 200 ppm; Short Term: 1470 mg/m <sup>3</sup> - 400 ppm Source: HTP-ARVOT 2020
	NATIONAL	FRANCE Long Term: 734 mg/m <sup>3</sup> - 200 ppm; Short Term: 1468 mg/m <sup>3</sup> - 400 ppm Source: INRS outil65, article R. 4412-149 du Code du travail
	NATIONAL	HUNGARY Long Term: 734 mg/m <sup>3</sup> ; Short Term: 1468 mg/m <sup>3</sup> i, sz, EU4, N Source: 5/2020. (II. 6.) ITM rendelet
	NATIONAL	LITHUANIA Long Term: 500 mg/m <sup>3</sup> - 150 ppm; Short Term: Ceiling - 1100 mg/m <sup>3</sup> - 300 ppm Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389
	NATIONAL	NETHERLAND S Long Term: 734 mg/m <sup>3</sup> ; Short Term: 1468 mg/m <sup>3</sup> Source: Arbeidsomstandighedenregeling - Lijst A
	NATIONAL	NORWAY Long Term: 734 mg/m <sup>3</sup> - 200 ppm; Short Term: 1468 mg/m <sup>3</sup> - 400 ppm E S Source: FOR-2021-06-28-2248
	NATIONAL	POLAND Long Term: 734 mg/m <sup>3</sup> ; Short Term: 1468 mg/m <sup>3</sup> Source: Dz.U. 2018 poz. 1286

NATIONAL	SLOVAKIA	Long Term: 734 mg/m <sup>3</sup> - 200 ppm; Short Term: 1468 mg/m <sup>3</sup> - 400 ppm Source: 355 NARIADENIE VLÁDY z 10. mája 2006
NATIONAL	SWEDEN	Long Term: 550 mg/m <sup>3</sup> - 150 ppm; Short Term: 1100 mg/m <sup>3</sup> - 300 ppm Source: AFS 2021:3
NATIONAL	BELGIUM	Long Term: 734 mg/m <sup>3</sup> - 200 ppm; Short Term: 1468 mg/m <sup>3</sup> - 400 ppm Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
NATIONAL	CROATIA	Long Term: 734 mg/m <sup>3</sup> - 200 ppm; Short Term: 1468 mg/m <sup>3</sup> - 400 ppm Source: 2017/164/EU
NATIONAL	CYPRUS	Long Term: 734 mg/m <sup>3</sup> - 200 ppm; Short Term: 1468 mg/m <sup>3</sup> - 400 ppm Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί του 2001 έως 2021
NATIONAL	GERMANY	Long Term: 730 mg/m <sup>3</sup> - 200 ppm DFG, EU, Y, 2(I) Source: TRGS 900
NATIONAL	GREECE	Long Term: 734 mg/m <sup>3</sup> - 200 ppm; Short Term: 1468 mg/m <sup>3</sup> - 400 ppm Source: Π.Δ. 82/2018 (ΦΕΚ 152/Α` 21.8.2018)
NATIONAL	IRELAND	Long Term: 734 mg/m <sup>3</sup> - 200 ppm; Short Term: 1468 mg/m <sup>3</sup> - 400 ppm IOELV Source: 2021 Code of Practice
NATIONAL	ITALY	Long Term: 734 mg/m <sup>3</sup> - 200 ppm; Short Term: 1468 mg/m <sup>3</sup> - 400 ppm Source: D.lgs. 81/2008, Allegato XXXVIII
NATIONAL	LATVIA	Long Term: 200 mg/m <sup>3</sup> - 54 ppm; Short Term: 1468 mg/m <sup>3</sup> - 400 ppm Source: KN325P1
NATIONAL	LUXEMBOUR G	Long Term: 734 mg/m <sup>3</sup> - 200 ppm; Short Term: 1468 mg/m <sup>3</sup> - 400 ppm Source: Mémorial A n.226 du 22 mars 2021
NATIONAL	MALTA	Long Term: 734 mg/m <sup>3</sup> - 200 ppm; Short Term: 1468 mg/m <sup>3</sup> - 400 ppm Source: S.L.424.24
NATIONAL	PORTUGAL	Long Term: 734 mg/m <sup>3</sup> - 200 ppm; Short Term: 1468 mg/m <sup>3</sup> - 400 ppm Source: Decreto-Lei n.º 1/2021
NATIONAL	ROMANIA	Long Term: 734 mg/m <sup>3</sup> - 200 ppm; Short Term: 1468 mg/m <sup>3</sup> - 400 ppm Dir. 2017/164 Source: Republicarea 1 - nr. 743 din 29 iulie 2021
NATIONAL	SLOVENIA	Long Term: 734 mg/m <sup>3</sup> - 200 ppm; Short Term: 1468 mg/m <sup>3</sup> - 400 ppm Y, EU4 Source: UL št. 72, 11. 5. 2021
NATIONAL	SPAIN	Long Term: 734 mg/m <sup>3</sup> - 200 ppm; Short Term: 1468 mg/m <sup>3</sup> - 400 ppm VLI Source: LEP 2022

### Biological limit values

Acetone  
CAS: 67-64-1

Biological Indicator: Acetone; Sampling Period: End of turn  
Value: 80 mg/L; Medium: Urine  
Remark: Not Specific

### Predicted No Effect Concentration (PNEC) values

Reaction mass of  
ethylbenzene and m-  
xylene and p-xylene

Exposure Route: Fresh Water; PNEC Limit: 44 µg/l

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 10 µg/l

Exposure Route: Marine water; PNEC Limit: 4.4 µg/l

Exposure Route: Intermittent releases (marine water); PNEC Limit: 1 µg/l

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 1.6 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 2.52 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 252 µg/kg

Exposure Route: Soil; PNEC Limit: 852 µg/kg

Acetone  
CAS: 67-64-1

Exposure Route: Fresh Water; PNEC Limit: 10.6 mg/l

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 21 mg/l

Exposure Route: Marine water; PNEC Limit: 1.06 mg/l  
Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l  
Exposure Route: Freshwater sediments; PNEC Limit: 30.4 mg/kg  
Exposure Route: Marine water sediments; PNEC Limit: 3.04 mg/kg  
Exposure Route: Soil; PNEC Limit: 29.5 mg/kg  
Exposure Route: Fresh Water; PNEC Limit: 240 µg/l

ethyl acetate  
CAS: 141-78-6

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 1.65 mg/l  
Exposure Route: Marine water; PNEC Limit: 24 µg/l  
Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 650 mg/l  
Exposure Route: Freshwater sediments; PNEC Limit: 1.15 mg/kg  
Exposure Route: Marine water sediments; PNEC Limit: 115 µg/kg  
Exposure Route: Soil; PNEC Limit: 148 µg/kg  
Exposure Route: Secondary poisoning; PNEC Limit: 200 mg/kg

#### Derived No Effect Level (DNEL) values

Reaction mass of  
ethylbenzene and m-  
xylene and p-xylene

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 221 mg/m<sup>3</sup>; Consumer: 65.3 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects  
Worker Professional: 442 mg/m<sup>3</sup>; Consumer: 260 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects  
Worker Professional: 221 mg/m<sup>3</sup>; Consumer: 65.3 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects  
Worker Professional: 442 mg/m<sup>3</sup>; Consumer: 260 mg/m<sup>3</sup>

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 212 mg/kg; Consumer: 125 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects  
Consumer: 2.5 mg/kg

ethyl acetate  
CAS: 141-78-6

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 734 mg/m<sup>3</sup>; Consumer: 367 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects  
Worker Professional: 1468 mg/m<sup>3</sup>; Consumer: 734 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects  
Worker Professional: 734 mg/m<sup>3</sup>; Consumer: 367 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects  
Worker Professional: 1468 mg/m<sup>3</sup>; Consumer: 734 mg/m<sup>3</sup>

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 63 mg/kg; Consumer: 37 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects  
Consumer: 4.5 mg/kg

#### 8.2. Exposure controls

Eye protection:

Eye glasses with side protection.(EN166)

Protection for skin:

Chemical protection clothing. Safety shoes.

Protection for hands:

Nitrile rubber, Viton, 4H .

Respiratory protection:

Gas filter type AX .

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

Hygienic and Technical measures

N.A.

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state: Liquid  
Colour: Colourless  
Odour: Characteristic  
Odour threshold: N.A.  
pH: N.A.  
Kinematic viscosity: N.A.  
Melting point/freezing point: < -50 °C (-58 °F)  
Boiling point or initial boiling point and boiling range: > 35 °C (95 °F)  
Flash point: < 23°C  
Lower and upper explosion limit: N.A.  
Relative vapour density: N.A.  
Vapour pressure: 109.67 mmHg  
Density and/or relative density: 0.83 kg/l  
Solubility in water: Immiscible  
Solubility in oil: N.A.  
Partition coefficient n-octanol/water (log value): N.A.  
Auto-ignition temperature: 370.00 °C  
Decomposition temperature: N.A.  
Flammability: The product is classified Flam. Liq. 2 H225  
Volatile Organic compounds - VOCs = 100 % ; 8.4 g/l

#### Particle characteristics:

Particle size: N.A.

### 9.2. Other information

No other relevant information

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions

### 10.2. Chemical stability

Data not available.

### 10.3. Possibility of hazardous reactions

Vapors may form explosive mixture with air

### 10.4. Conditions to avoid

Heat and open flames.

### 10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

### 10.6. Hazardous decomposition products

In combustion can develop irritant and toxic gases.

---

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Toxicological Information of the Preparation

a) acute toxicity	Not classified Based on available data, the classification criteria are not met
b) skin corrosion/irritation	The product is classified: Skin Irrit. 2(H315)
c) serious eye damage/irritation	The product is classified: Eye Irrit. 2(H319)
d) respiratory or skin sensitisation	Not classified Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified Based on available data, the classification criteria are not met
h) STOT-single exposure	The product is classified: STOT SE 3(H335), STOT SE 3(H336)
i) STOT-repeated exposure	The product is classified: STOT RE 2(H373)

**Toxicological information on main components of the mixture:**

Reaction mass of ethylbenzene and m-xylene and p-xylene	a) acute toxicity	LD50 Oral Rat = 3523 ml/Kg	
		LC50 Inhalation Vapour Rat = 27.12 mg/l 4h	
		LD50 Skin Rabbit = 12126 mg/kg 24h	
	b) skin corrosion/irritation	Skin Irritant Rabbit Positive 4h	
	c) serious eye damage/irritation	Eye Irritant Rabbit Yes 1h	
	f) carcinogenicity	Genotoxicity Negative	Mouse subcutaneous route
	g) reproductive toxicity	No Observed Adverse Effect Level Inhalation Rat = 500	ppm
Acetone	a) acute toxicity	LD50 Oral Rat = 5800 mg/kg	
		LC50 Inhalation Vapour Rat = 76 mg/l 4h	
		LD50 Skin Rabbit > 7400 mg/kg 24h	
	b) skin corrosion/irritation	Skin Irritant Rabbit Negative	
	c) serious eye damage/irritation	Eye Irritant Rabbit Yes	
	d) respiratory or skin sensitisation	Skin Sensitization Guinea pig Negative	
	f) carcinogenicity	Genotoxicity Negative	Mouse oral route
	g) reproductive toxicity	No Observed Effect Level Oral Rat = 10000 mg/l	
ethyl acetate	a) acute toxicity	LD50 Oral Rat = 5620 mg/kg	
		LC50 Inhalation Vapour Rat > 22.5 mg/l 6h	No mortality occurred
		LD50 Skin Rabbit > 20000 mg/kg 24h	
	b) skin corrosion/irritation	Skin Irritant Rabbit Negative 24h	
	c) serious eye damage/irritation	Eye Irritant Rabbit No	
	d) respiratory or skin sensitisation	Skin Sensitization Guinea pig Negative	
	f) carcinogenicity	Genotoxicity Negative	Hamster oral route
	g) reproductive toxicity	No Observed Adverse Effect Level Oral = 13800 mg/kg	Mouse

**11.2. Information on other hazards****Endocrine disrupting properties:**No endocrine disruptor substances present in concentration  $\geq 0.1\%$ **SECTION 12: Ecological information****12.1. Toxicity**

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

**List of Eco-Toxicological properties of the product**

Not classified for environmental hazards.

No data available for the product

**List of Eco-Toxicological properties of the components**

Component	Ident. Numb.	Ecotox Data
Reaction mass of ethylbenzene and m-xylene and p-xylene	EINECS: 905-562-9	a) Aquatic acute toxicity : LC50 Fish Danio rerio = 0.71 mg/L 96h OECD Guideline 210
		b) Aquatic chronic toxicity : NOEC Fish freshwater fish = 1.3 mg/L - 56days
		a) Aquatic acute toxicity : LC50 Daphnia magna = 1 mg/L 24h OECD 202

Acetone	CAS: 67-64-1 - EINECS: 200- 662-2 - INDEX: 606-001-00-8	b) Aquatic chronic toxicity : NOEC Daphnia Ceriodaphnia dubia = 1.17 mg/L OECD 211 - 7days
		a) Aquatic acute toxicity : EC50 Algae freshwater algae = 2.2 mg/L 72h OECD 201
		a) Aquatic acute toxicity : EC50 microorganisms = 16 mg/L OECD 301F - 28days
		d) Terrestrial toxicity : LC50 soil macroorganisms = 88.8 mg/kg - 14days
		a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 5540 mg/L 96h OECD 203
		a) Aquatic acute toxicity : LC50 Daphnia Daphnia pulex = 8800 mg/L 48h OECD 202
		b) Aquatic chronic toxicity : NOEC Daphnia Daphnia magna = 2212 mg/L OECD 211 - 28days
		a) Aquatic acute toxicity : NOEC Algae Microcystis aeruginosa = 530 mg/L
		a) Aquatic acute toxicity : NOEC Sludge Activated sludge = 1000 mg/L OECD Guideline 209 - 30min
		d) Terrestrial toxicity : LC50 Worm Eisenia fetida = 0.55 mg/cm2 48h OECD Guideline 207
ethyl acetate	CAS: 141-78-6 - EINECS: 205- 500-4 - INDEX: 607-022-00-5	a) Aquatic acute toxicity : LC50 Fish S Gairdneri = 230 mg/L 96h
		b) Aquatic chronic toxicity : NOEC Fish freshwater fish = 6.9 mg/L - 32days
		a) Aquatic acute toxicity : LC50 Daphnia Daphnia Cucullata = 165 mg/L 48h
		b) Aquatic chronic toxicity : NOEC Daphnia daphnia magna = 2.4 mg/L - 21days
		a) Aquatic acute toxicity : EC50 Algae S. subspicatus = 5600 mg/L 48h
		c) Bacteria toxicity : NOEC Pseudomonas putida = 650 mg/L - 16hr

## 12.2. Persistence and degradability

Component	Persitence/Degradability:	Test	Value	Notes:
Reaction mass of ethylbenzene and m-xylene and p-xylene	Readily biodegradable			
Acetone	Readily biodegradable	Biochemical oxygen demand	90.000	
ethyl acetate	Readily biodegradable	CO2 production	94.000	28days

## 12.3. Bioaccumulative potential

Component	Bioaccumulation	Test	Value	Notes:
Reaction mass of ethylbenzene and m-xylene and p-xylene	Bioaccumulative	BCF - Bioconcentration factor	25.900	
Acetone	Bioaccumulative	BCF - Bioconcentration factor	3.000	
ethyl acetate	Bioaccumulative	BCF - Bioconcentration factor	30.000	aquatic species

## 12.4. Mobility in soil

N.A.

## 12.5. Results of PBT and vPvB assessment

No PBT or vPvB substances present in concentration  $\geq 0.1\%$

## 12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

## 12.7. Other adverse effects

N.A.

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force. Disposal through discharge into wastewater is not permitted

The product disposed of as such, pursuant to Regulation (EU) 1357/2014, must be classified as hazardous waste

A waste code according to the European List of Wastes (LoW) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

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## SECTION 14: Transport information

### 14.1. UN number or ID number

1263

### 14.2. UN proper shipping name

ADR-Shipping Name: PAINT RELATED MATERIAL

IATA-Technical name: PAINT RELATED MATERIAL

IMDG-Technical name: PAINT RELATED MATERIAL

### 14.3. Transport hazard class(es)

ADR-Class: 3

IATA-Class: 3

IMDG-Class: 3

### 14.4. Packing group

ADR-Packing Group: II

IATA-Packing group: II

IMDG-Packing group: II

### 14.5. Environmental hazards

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: F-E, S-E

### 14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: 3

ADR - Hazard identification number: 33

ADR-Special Provisions: 163 367 640C 650

ADR-Transport category (Tunnel restriction code): 2 (D/E)

ADR Limited Quantities: 5 L

ADR Excepted Quantities: E2

Air (IATA):

IATA-Passenger Aircraft: 353

IATA-Cargo Aircraft: 364

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisions: A3 A72 A192

Sea (IMDG):

IMDG-Stowage Code: Category B

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 163 367

### 14.7. Maritime transport in bulk according to IMO instruments

N.A.

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## SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)  
 Regulation (EU) n. 618/2012 (ATP 3 CLP)  
 Regulation (EU) n. 487/2013 (ATP 4 CLP)  
 Regulation (EU) n. 944/2013 (ATP 5 CLP)  
 Regulation (EU) n. 605/2014 (ATP 6 CLP)  
 Regulation (EU) n. 2015/1221 (ATP 7 CLP)  
 Regulation (EU) n. 2016/918 (ATP 8 CLP)  
 Regulation (EU) n. 2016/1179 (ATP 9 CLP)  
 Regulation (EU) n. 2017/776 (ATP 10 CLP)  
 Regulation (EU) n. 2018/669 (ATP 11 CLP)  
 Regulation (EU) n. 2018/1480 (ATP 13 CLP)  
 Regulation (EU) n. 2019/521 (ATP 12 CLP)  
 Regulation (EU) n. 2020/217 (ATP 14 CLP)  
 Regulation (EU) n. 2020/1182 (ATP 15 CLP)  
 Regulation (EU) n. 2021/643 (ATP 16 CLP)  
 Regulation (EU) n. 2021/849 (ATP 17 CLP)  
 Regulation (EU) n. 2022/692 (ATP 18 CLP)  
 Regulation (EU) n. 2020/878  
 Regulation (EC) nr 648/2004 (Detergents).

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3, 40

Restrictions related to the substances contained: 75

Provisions related to directive EU 2012/18 (Seveso III):

**Seveso III category according to Annex 1, part 1**

Product belongs to category: P5c 5000 50000

Explosives precursors – Regulation 2019/1148

No substances listed

#### **Regulation (EU) No 649/2012 (PIC regulation)**

No substances listed

German Water Hazard Class.

Non-hazardous to waters

SVHC Substances:

No SVHC substances present in concentration  $\geq 0.1\%$

Regulation (EU) 2019/1148 concerning the marketing and use of explosives precursors.

ACETONE (CAS 67-64-1): ANNEX II- Regulated explosives precursors.

Substance indicated in section 3.2 included in Annex II (regulated precursor).

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions and significant disappearances and thefts must be reported to the competent national contact point at

GREAT BRITAIN: Metropolitan Police Service - Tel. 0207 230 9066; Tel. 0207 230 8850; E-mail: Chemical.Reporting@Met.Police.UK

NORTHERN IRELAND: Police Service of Northern Ireland - Tel. 0800 789 321; E-mail: Chemical.reporting@psni.pnn.police.uk

MALTA: Competition and Consumer Affairs Authority - Tel. (+356) 23952000; Fax: (+356) 21242420; E-mail: info@mccaa.org.mt

IRELAND: An Garda Síochána - Phone: +353 1 6661782 (office hours); or Garda 24hr Confidential Line: 1800 666 111; or 999 or 112 (in the event of a serious or imminent threat); Email: Liaisonandprotection\_DV@garda.ie

#### **15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out for the mixture.

**Substances for which a Chemical Safety Assessment has been carried out:**

Reaction mass of ethylbenzene and m-xylene and p-xylene

Acetone

ethyl acetate

## **SECTION 16: Other information**

<b>Code</b>	<b>Description</b>
EUH066	Repeated exposure may cause skin dryness or cracking.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.

H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.

Code	Hazard class and hazard category	Description
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, Category 2

**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
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Flam. Liq. 2, H225	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H335	Calculation method
STOT SE 3, H336	Calculation method
STOT RE 2, H373	Calculation method
Asp. Tox. 1, H304	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration  
 ECHA: European Chemicals Agency  
 EINECS: European Inventory of Existing Commercial Chemical Substances.  
 ES: Exposure Scenario  
 GefStoffVO: Ordinance on Hazardous Substances, Germany.  
 GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
 IARC: International Agency for Research on Cancer  
 IATA: International Air Transport Association.  
 IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
 IC50: half maximal inhibitory concentration  
 ICAO: International Civil Aviation Organization.  
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
 IMDG: International Maritime Code for Dangerous Goods.  
 INCI: International Nomenclature of Cosmetic Ingredients.  
 IRCCS: Scientific Institute for Research, Hospitalization and Health Care  
 KAFH: Keep Away From Heat  
 KSt: Explosion coefficient.  
 LC50: Lethal concentration, for 50 percent of test population.  
 LD50: Lethal dose, for 50 percent of test population.  
 LDLo: Leathal Dose Low  
 N.A.: Not Applicable  
 N/A: Not Applicable  
 N/D: Not defined/ Not available  
 NA: Not available  
 NIOSH: National Institute for Occupational Safety and Health  
 NOAEL: No Observed Adverse Effect Level  
 OSHA: Occupational Safety and Health Administration  
 PBT: Persistent, Bioaccumulative and Toxic  
 PGK: Packaging Instruction  
 PNEC: Predicted No Effect Concentration.  
 PSG: Passengers  
 RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
 STEL: Short Term Exposure limit.  
 STOT: Specific Target Organ Toxicity.  
 TLV: Threshold Limiting Value.  
 TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
 vPvB: Very Persistent, Very Bioaccumulative.  
 WGK: German Water Hazard Class.

**Paragraphs modified from the previous revision:**

- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 10: Stability and reactivity
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 13: Disposal considerations
- SECTION 14: Transport information
- SECTION 15: Regulatory information
- SECTION 16: Other information



## Exposure Scenario

### Ethyl acetate

## Exposure Scenario, 13/07/2021

Substance identity	
	Ethyl acetate
CAS No.	141-78-6
INDEX No.	607-022-00-5
EINECS No.	205-500-4
Registration number	01-2119475103-46

## Table of contents

1. **ES 1** Widespread use by professional workers; Coatings and paints, thinners, paint removers (PC9a)

1. ES 1		Widespread use by professional workers; Coatings and paints, thinners, paint removers (PC9a)	
<b>1.1 TITLE SECTION</b>			
Exposure Scenario name	Professional application of coatings and inks by brush or roller - Handling and dilution of concentrates		
Date - Version	13/07/2021 - 1.0		
Life Cycle Stage	Widespread use by professional workers		
Main user group	Professional uses		
Sector(s) of use	Professional uses (SU22)		
Product Categories	Coatings and paints, thinners, paint removers (PC9a)		
<b>Environment Contributing Scenario</b>			
CS1	ERC8a - ERC8d		
<b>Worker Contributing Scenario</b>			
CS2 Handling and dilution of concentrates	PROC8a		
CS3 Handling and dilution of concentrates	PROC10		
<b>1.2 Conditions of use affecting exposure</b>			
<b>1.2. CS1: Environment Contributing Scenario (ERC8a, ERC8d)</b>			
Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8a, ERC8d)		
<i>Product (article) characteristics</i>			
Physical form of product: Liquid			
Concentration of substance in product: Covers percentage substance in the product up to 100 %.			
<b>1.2. CS2: Worker Contributing Scenario: Handling and dilution of concentrates (PROC8a)</b>			
Process Categories	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)		
<i>Product (article) characteristics</i>			
Physical form of product: Liquid			
Concentration of substance in product: Covers percentage substance in the product up to 100 %.			
<i>Amount used, frequency and duration of use/exposure</i>			
Duration: Covers daily exposures up to 8 hours			
<i>Technical and organisational conditions and measures</i>			
Technical and organisational measures Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).			
<i>Other conditions affecting worker exposure</i>			
Indoor use Professional use Temperature: Assumes use at not more than 20 °C above ambient temperature.			
<b>1.2. CS3: Worker Contributing Scenario: Handling and dilution of concentrates (PROC10)</b>			

<b>Process Categories</b>	Roller application or brushing (PROC10)
<b>Product (article) characteristics</b>	
<b>Physical form of product:</b> Liquid	
<b>Concentration of substance in product:</b> Covers percentage substance in the product up to 100 %.	
<b>Amount used, frequency and duration of use/exposure</b>	
<b>Duration:</b> Covers daily exposures up to 8 hours	
<b>Technical and organisational conditions and measures</b>	
<b>Technical and organisational measures</b> Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Ensure control measures are regularly inspected and maintained. Provide extract ventilation to points where emissions occur.	
<b>Other conditions affecting worker exposure</b>	
Indoor use Professional use <b>Temperature:</b> Assumes use at not more than 20 °C above ambient temperature.	

## 1.3 Exposure estimation and reference to its source

### 1.3. CS1: Environment Contributing Scenario (ERC8a, ERC8d)

Release route	Release rate	Release estimation method
Water	0.014 kg/day	N/A
Air	0.666 kg/day	N/A
soil	0 kg/day	N/A

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
freshwater	= 0.0004036 mg/L	N/A	< 0.01
freshwater sediment	= 0.002 mg/kg KW	N/A	< 0.01
marine sediment	= 0.0003587 mg/kg KW	N/A	< 0.01
Agricultural soil	= 0.000113 mg/kg KW	N/A	< 0.336

### 1.3. CS2: Worker Contributing Scenario: Handling and dilution of concentrates (PROC8a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	= 51.39 mg/m <sup>3</sup>	ECETOC TRA worker v3	= 0.07
inhalative, local, long-term	= 51.39 mg/m <sup>3</sup>	ECETOC TRA worker v3	= 0.07
dermal, systemic, long-term	= 13.71 mg/kg bw/day	ECETOC TRA worker v3	= 0.218

### 1.3. CS3: Worker Contributing Scenario: Handling and dilution of concentrates (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	= 51.39 mg/m <sup>3</sup>	ECETOC TRA worker v3	= 0.07
inhalative, local, long-term	= 51.39 mg/m <sup>3</sup>	ECETOC TRA worker v3	= 0.07
dermal, systemic, long-term	= 27.43 mg/kg bw/day	ECETOC TRA worker v3	= 0.435

## 1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

### Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.



# Exposure Scenario

## Acetone

### Exposure Scenario, 27/08/2021

Substance identity	
	Acetone
CAS No.	67-64-1
INDEX No.	606-001-00-8
EINECS No.	200-662-2
Registration number	01-2119471330-49

### Table of contents

1. **ES 1** Widespread use by professional workers; Coatings and paints, thinners, paint removers (PC9a)

1. ES 1		Widespread use by professional workers; Coatings and paints, thinners, paint removers (PC9a)	
<b>1.1 TITLE SECTION</b>			
Exposure Scenario name	Professional application of coatings and inks		
Date - Version	27/08/2021 - 1.0		
Life Cycle Stage	Widespread use by professional workers		
Main user group	Professional uses		
Sector(s) of use	Professional uses (SU22)		
Product Categories	Coatings and paints, thinners, paint removers (PC9a)		
<b>Environment Contributing Scenario</b>			
CS1	ERC8a - ERC8c - ERC8d - ERC8f		
<b>Worker Contributing Scenario</b>			
CS2 Material transfers	PROC8a		
CS3 Rolling, Brushing	PROC10		
<b>1.2 Conditions of use affecting exposure</b>			
<b>1.2. CS1: Environment Contributing Scenario (ERC8a, ERC8c, ERC8d, ERC8f)</b>			
Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) - Widespread use leading to inclusion into/onto article (indoor) - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) - Widespread use leading to inclusion into/onto article (outdoor) (ERC8a, ERC8c, ERC8d, ERC8f)		
<i>Product (article) characteristics</i>			
<b>Physical form of product:</b> Liquid, vapour pressure > 10 kPa at STP			
<b>Concentration of substance in product:</b> Covers concentrations up to 70 %			
<i>Amount used, frequency and duration of use (or from service life)</i>			
<b>Emission days:</b> 365 days per year			
<i>Conditions and measures related to treatment of waste (including article waste)</i>			
<b>Waste treatment</b> External treatment and disposal of waste should comply with applicable local and/or national regulations.			
<i>Other conditions affecting environmental exposure</i>			
<b>Local marine water dilution factor:</b> 100 <b>Local freshwater dilution factor:</b> 10			
<b>1.2. CS2: Worker Contributing Scenario: Material transfers (PROC8a)</b>			
Process Categories	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)		
<i>Product (article) characteristics</i>			
<b>Physical form of product:</b> Liquid, vapour pressure > 10 kPa at STP			
<b>Concentration of substance in product:</b> Covers concentrations up to 70 %			
<i>Amount used, frequency and duration of use/exposure</i>			
<b>Duration:</b>			

Covers exposure up to 4 h

Technical and organisational conditions and measures

Technical and organisational measures

Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear suitable gloves tested to EN374.

Use suitable eye protection.

1.2. CS3: Worker Contributing Scenario: Rolling, Brushing (PROC10)

Process Categories

Roller application or brushing (PROC10)

Product (article) characteristics

Physical form of product:

Liquid, vapour pressure > 10 kPa at STP

Concentration of substance in product:

Covers concentrations up to 70 %

Amount used, frequency and duration of use/exposure

Duration:

Covers exposure up to 4 h

Technical and organisational conditions and measures

Technical and organisational measures

Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear suitable gloves tested to EN374.

Use suitable eye protection.

1.3 Exposure estimation and reference to its source

1.3. CS1: Environment Contributing Scenario (ERC8a, ERC8c, ERC8d, ERC8f)

Additional information on exposure estimation:

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

1.3. CS2: Worker Contributing Scenario: Material transfers (PROC8a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative	N/A	ECETOC TRA worker v2.0	= 0.6
dermal	N/A	ECETOC TRA worker v2.0	= 0.07
combined routes	N/A	ECETOC TRA worker v2.0	= 0.67

1.3. CS3: Worker Contributing Scenario: Rolling, Brushing (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative	N/A	ECETOC TRA worker v2.0	= 0.6
dermal	N/A	ECETOC TRA worker v2.0	= 0.15
combined routes	N/A	ECETOC TRA worker v2.0	= 0.75

## 1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

### **Guidance to check compliance with the exposure scenario:**

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

# Exposure Scenario

## reaction mass of ethylbenzene and m-xylene and p-xylene

### Exposure Scenario, 30/08/2021

Substance identity	
	reaction mass of ethylbenzene and m-xylene and p-xylene
EINECS No.	905-562-9
Registration number	01-2119555267-33

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1. **ES 1** Widespread use by professional workers; Coatings and paints, thinners, paint removers (PC9a)

1. ES 1		Widespread use by professional workers; Coatings and paints, thinners, paint removers (PC9a)	
<b>1.1 TITLE SECTION</b>			
Exposure Scenario name	Professional application of coatings and inks		
Date - Version	30/08/2021 - 1.0		
Life Cycle Stage	Widespread use by professional workers		
Main user group	Professional uses		
Sector(s) of use	Professional uses (SU22)		
Product Categories	Coatings and paints, thinners, paint removers (PC9a)		
<b>Environment Contributing Scenario</b>			
CS1	ERC8a - ERC8d		
<b>Worker Contributing Scenario</b>			
CS2 Material transfers	PROC8a		
CS3 Rolling, Brushing - Roller, spreader, flow application	PROC10 - PROC11		
<b>1.2 Conditions of use affecting exposure</b>			
<b>1.2. CS1: Environment Contributing Scenario (ERC8a, ERC8d)</b>			
Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8a, ERC8d)		
<i>Product (article) characteristics</i>			
<b>Physical form of product:</b> Liquid, vapour pressure 0,5 - 10 kPa at STP			
<b>Vapour pressure:</b> = 821 Pa			
<b>Concentration of substance in product:</b> Covers concentrations up to 51 %			
<i>Amount used, frequency and duration of use (or from service life)</i>			
<b>Amounts used:</b> Annual site tonnage 10 t(tonnes)/year			
<b>Maximum allowable site tonnage (MSafe):</b> 4628 kg/day			
<b>Emission days:</b> 365 days per year			
<i>Technical and organisational conditions and measures</i>			
<b>Control measures to prevent releases</b>			
		Water - minimum efficiency of: = 93.67 %	
<i>Conditions and measures related to sewage treatment plant</i>			
<b>STP type:</b> Onsite Sewage Treatment Plant Water - minimum efficiency of: = 93.67 %			
<b>STP effluent (m<sup>3</sup>/day):</b> 2000			
<i>Conditions and measures related to treatment of waste (including article waste)</i>			

<b>Waste treatment</b>	
External treatment and disposal of waste should comply with applicable local and/or national regulations.	
<i>Other conditions affecting environmental exposure</i>	
<b>Local marine water dilution factor:</b> 100	
<b>Local freshwater dilution factor:</b> 10	
<b>1.2. CS2: Worker Contributing Scenario: Material transfers (PROC8a)</b>	
<b>Process Categories</b>	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)
<i>Product (article) characteristics</i>	
<b>Physical form of product:</b> Liquid, vapour pressure 0,5 - 10 kPa at STP	
<b>Vapour pressure:</b> = 821 Pa	
<b>Concentration of substance in product:</b> Covers concentrations up to 51 %	
<i>Amount used, frequency and duration of use/exposure</i>	
<b>Duration:</b> Covers daily exposures up to 8 hours	
<i>Technical and organisational conditions and measures</i>	
<b>Technical and organisational measures</b> Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).	
<i>Other conditions affecting worker exposure</i>	
<b>Temperature:</b> Assumes use at not more than 20 °C above ambient temperature.	
<b>1.2. CS3: Worker Contributing Scenario: Rolling, Brushing - Roller, spreader, flow application (PROC10, PROC11)</b>	
<b>Process Categories</b>	Roller application or brushing - Non industrial spraying (PROC10, PROC11)
<i>Product (article) characteristics</i>	
<b>Physical form of product:</b> Liquid, vapour pressure 0,5 - 10 kPa at STP	
<b>Vapour pressure:</b> = 821 Pa	
<b>Concentration of substance in product:</b> Covers concentrations up to 51 %	
<i>Amount used, frequency and duration of use/exposure</i>	
<b>Duration:</b> Covers daily exposures up to 8 hours	
<i>Technical and organisational conditions and measures</i>	
<b>Technical and organisational measures</b> Provide a good standard of controlled ventilation (10 to 15 air changes per hour).	
<i>Conditions and measures related to personal protection, hygiene and health evaluation</i>	
<b>Personal protection</b> Wear a respirator conforming to EN140.	
<i>Other conditions affecting worker exposure</i>	
<b>Temperature:</b> Assumes use at not more than 20 °C above ambient temperature.	
<b>1.3 Exposure estimation and reference to its source</b>	
N/A	

## 1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

### **Guidance to check compliance with the exposure scenario:**

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.