

Safety Data Sheet

A11S 1K SPOT PRIMER



Safety Data Sheet dated 11/4/2023, version 1

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

1.1. Product identifier

Mixture identification:

Trade code and name: A11S 1K SPOT PRIMER

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

1K anticorrosive primer for autobody use - aerosol.

Only for professional use.

1.3. Details of the supplier of the safety data sheet

Company:

Industria Chimica Reggiana I.C.R. Spa

(subject to management and coordination by sole shareholder company PPG Industries Inc.)

Via Gasparini, 7 42124 REGGIO EMILIA Italia

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Distributed in the UK by:

PPG Refinish Distribution

Needham Road, Stowmarket, IP14 2ZR

Tel: 0800 015 1717

Competent person responsible for the safety data sheet:

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1.4. Emergency telephone number

UK :Tel. +39 0522-517803 or NHS 111 - dial 111

Republic of Ireland: Tel. 018092166

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

⚠ Danger, Aerosols 1, Extremely flammable aerosol. Pressurized container: may burst if heated.

⚠ Warning, Acute Tox. 4, Harmful if inhaled.

⚠ Warning, Skin Irrit. 2, Causes skin irritation.

⚠ Warning, Eye Irrit. 2, Causes serious eye irritation.

⚠ Warning, Skin Sens. 1A, May cause an allergic skin reaction.

⚠ Warning, STOT SE 3, May cause respiratory irritation.

⚠ Warning, STOT SE 3, May cause drowsiness or dizziness.

⚠ Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.

⚠ Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H222, H229 Extremely flammable aerosol. Pressurized container: may burst if heated.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

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H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P211 Do not spray on an open flame or other ignition source.
 P251 Do not pierce or burn, even after use.
 P260 Do not breathe vapours or spray.
 P273 Avoid release to the environment.
 P280.D Wear protective gloves and clothing and eye protection.
 P312 Call a doctor if you feel unwell.
 P391 Collect spillage.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

Special Provisions:

None

Contains

acetone
 Xylene
 2-methoxy-1-methylethyl acetate
 maleic anhydride
 Fatty acids, C14-18 and C16-18-unsatd., maleated: May produce an allergic reaction.
 Fatty acids C18 with oleylamine: May produce an allergic reaction.

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

Restricted to professional users.

2.3. Other hazards

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

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

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

Qty	Name	Ident. Number	Classification
$\geq 30\%$ - $< 40\%$	acetone	Index number: 606-001-00-8 CAS: 67-64-1 EC: 200-662-2 REACH No.: 01-2119471330-49	⚠ 2.6/2 Flam. Liq. 2 H225 ⚠ 3.3/2 Eye Irrit. 2 H319 ⚠ 3.8/3 STOT SE 3 H336 EUH066
$\geq 20\%$ - $< 25\%$	Xylene	Index number: 601-022-01-6 CAS: 1330-20-7 EC: 215-535-7 REACH No.: 01-2119488216-32	⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.10/1 Asp. Tox. 1 H304 ⚠ 3.9/2 STOT RE 2 H373 ⚠ 3.1/4/Dermal Acute Tox. 4 H312 ⚠ 3.1/4/Inhal Acute Tox. 4 H332 ⚠ 3.2/2 Skin Irrit. 2 H315 ⚠ 3.3/2 Eye Irrit. 2 H319 ⚠ 3.8/3 STOT SE 3 H335 4.1/C3 Aquatic Chronic 3 H412
$\geq 10\%$ -	2-methoxy-1-	Index number: 607-195-00-7	⚠ 2.6/3 Flam. Liq. 3 H226

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< 12.5%	methylethyl acetate	CAS: EC: REACH No.:	108-65-6 203-603-9 01- 2119475791- 29	⚠ 3.8/3 STOT SE 3 H336
>= 3% - < 5%	n-butyl acetate	Index number: CAS: EC: REACH No.:	607-025-00-1 123-86-4 204-658-1 01- 2119485493- 29	⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.8/3 STOT SE 3 H336 EUH066
>= 3% - < 5%	Trizinc bis(orthophosphate)	Index number: CAS: EC: REACH No.:	030-011-00-6 7779-90-0 231-944-3 01- 2119485044- 40	⚠ 4.1/A1 Aquatic Acute 1 H400 M=1. ⚠ 4.1/C1 Aquatic Chronic 1 H410 M=1.
>= 1% - < 3%	2-butoxyethanol; ethylene glycol monobutyl ether	Index number: CAS: EC: REACH No.:	603-014-00-0 111-76-2 203-905-0 01- 2119475108- 36	⚠ 3.1/3/Inhal Acute Tox. 3 H331 ⚠ 3.1/4/Oral Acute Tox. 4 H302 ⚠ 3.2/2 Skin Irrit. 2 H315 ⚠ 3.3/2 Eye Irrit. 2 H319 Acute Toxicity Estimate: ATE - Oral 1200 mg/kg bw ATE - Inhalation (Vapours) 3 mg/l
>= 0.5% - < 1%	ethyl acetate	Index number: CAS: EC: REACH No.:	607-022-00-5 141-78-6 205-500-4 01- 2119475103- 46	⚠ 2.6/2 Flam. Liq. 2 H225 ⚠ 3.3/2 Eye Irrit. 2 H319 ⚠ 3.8/3 STOT SE 3 H336 EUH066
>= 0.1% - < 0.25%	Fatty acids, C14-18 and C16-18- unsatd., maleated	CAS: EC: REACH No.:	85711-46-2 288-306-2 01- 2119976378- 19	⚠ 3.2/2 Skin Irrit. 2 H315 ⚠ 3.4.2/1 Skin Sens. 1 H317
>= 0.1% - < 0.25%	Fatty acids C18 with oleylamine	CAS: EC: REACH No.:	147900-93-4 604-612-4 01- 2119971821- 33	⚠ 3.1/4/Oral Acute Tox. 4 H302 ⚠ 3.9/2 STOT RE 2 H373 ⚠ 4.1/C2 Aquatic Chronic 2 H411 ⚠ 3.4.2/1-1A-1B Skin Sens. 1,1A, 1B H317
>= 0.1% - < 0.25%	zinc oxide	Index number: CAS: EC: REACH No.:	030-013-00-7 1314-13-2 215-222-5 01- 2119463881- 32	⚠ 4.1/A1 Aquatic Acute 1 H400 M=1. ⚠ 4.1/C1 Aquatic Chronic 1 H410 M=1.
< 0.01%	maleic anhydride	Index number: CAS: EC: REACH No.:	607-096-00-9 108-31-6 203-571-6 01- 2119472428-	⚠ 3.1/4/Oral Acute Tox. 4 H302 ⚠ 3.9/1 STOT RE 1 H372 ⚠ 3.2/1B Skin Corr. 1B H314 ⚠ 3.3/1 Eye Dam. 1 H318

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		31	<p>☠ 3.4.1/1 Resp. Sens. 1 H334 ☠ 3.4.2/1A Skin Sens. 1A H317 EUH071 Specific Concentration Limits: C >= 0,001%: Skin Sens. 1A H317</p>
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All component substances of this product have been registered under REACH or are exempt from REACH registration.
Substances in Section 3 not showing REACH registration codes are exempt from registration.

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. If irritation persists: Get medical advice/attention.
Wash thoroughly the body (shower or bath).
Remove contaminated clothing immediately 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 at least 15 minutes, then consult a medic immediately.
Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Ventilate the premises. The patient is to be removed immediately from the contaminated premises to rest in a well ventilated area. OBTAIN MEDICAL ATTENTION.
If breathing is irregular or stopped, administer artificial respiration.
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

See section 11 for known symptoms and effects.

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).

Treatment:

None

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:

Do not use water jets. Water may not be effective fire fighting measure, however it can be used to cool closed

containers close to flames as to avoid bursting and exploding.

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke. Carbon oxides.

5.3. Advice for firefighters

Use suitable breathing apparatus .

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

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

SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
 - 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.
- 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
 - Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.
- 6.4. Reference to other sections
 - See also section 8 and 13

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.
 - See also section 8 for recommended protective equipment.
 - Advice on general occupational hygiene:
 - Contaminated clothing should be changed before entering eating areas.
 - Do not eat or drink while working.
- 7.2. Conditions for safe storage, including any incompatibilities
 - Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.
 - Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
 - Keep away from food, drink and feed.
 - None in particular.
 - Instructions as regards storage premises:
 - Cool and adequately ventilated.
- 7.3. Specific end use(s)
 - See Point 1.2.

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters
 - acetone - CAS: 67-64-1
 - Italy - TWA(8h): 1210 mg/m³, 500 ppm
 - EU - TWA(8h): 1210 mg/m³, 500 ppm
 - ACGIH - TWA(8h): 250 ppm - STEL: 500 ppm - Notes: A4, BEI - URT and eye irr, CNS impair
 - Xylene - CAS: 1330-20-7
 - Italy - TWA(8h): 221 mg/m³, 50 ppm - STEL(): 442 mg/m³, 100 ppm - Notes: Assorbito attraverso la pelle
 - ACGIH - TWA(8h): 20 ppm - Notes: A4, BEI - URT and eye irr; hematologic eff; CNS impair

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EU - TWA(8h): 221 mg/m³, 50 ppm - STEL: 442 mg/m³, 100 ppm - Notes: Skin
2-methoxy-1-methylethyl acetate - CAS: 108-65-6
Italy - TWA(8h): 275 mg/m³, 50 ppm - STEL: 550 mg/m³, 100 ppm - Notes: H
EU - TWA(8h): 275 mg/m³, 50 ppm - STEL: 550 mg/m³, 100 ppm - Notes: Skin
n-butyl acetate - CAS: 123-86-4
EU - TWA(8h): 241 mg/m³, 50 ppm - STEL: 723 mg/m³, 150 ppm
ACGIH - TWA(8h): 50 ppm - STEL: 150 ppm - Notes: Eye and URT irr
2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
Italy - TWA(8h): 98 mg/m³, 20 ppm - STEL(): 246 mg/m³, 50 ppm - Notes: Pelle
ACGIH - TWA(8h): 20 ppm - Notes: A3, BEI - Eye and URT irr
EU - TWA(8h): 98 mg/m³, 20 ppm - STEL: 246 mg/m³, 50 ppm - Notes: Skin
ethyl acetate - CAS: 141-78-6
EU - TWA(8h): 734 mg/m³, 200 ppm - STEL: 1468 mg/m³, 400 ppm
ACGIH - TWA(8h): 400 ppm - Notes: URT and eye irr
zinc oxide - CAS: 1314-13-2
ACGIH - TWA(8h): 2 mg/m³ - STEL: 10 mg/m³ - Notes: (R) - Metal fume fever
maleic anhydride - CAS: 108-31-6
ACGIH - TWA(8h): 0.01 mg/m³ - Notes: (IFV), DSEN, RSEN, A4 - Resp sens
DNEL Exposure Limit Values
acetone - CAS: 67-64-1
Worker Professional: 186 mg/kg - Consumer: 62 mg/kg - Exposure: Human Dermal -
Frequency: Long Term, systemic effects
Worker Professional: 2420 mg/m³ - Exposure: Human Inhalation - Frequency: Short
Term, systemic effects
Worker Professional: 1210 mg/m³ - Consumer: 200 mg/m³ - Exposure: Human Inhalation
- Frequency: Long Term, systemic effects
Consumer: 62 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
Xylene - CAS: 1330-20-7
Worker Professional: 442 mg/kg - Exposure: Human Inhalation - Frequency: Short Term,
local effects
Worker Professional: 212 mg/kg - Consumer: 108 mg/kg - Exposure: Human Dermal -
Frequency: Long Term, systemic effects
Worker Professional: 77 mg/m³ - Consumer: 14.8 mg/m³ - Exposure: Human Inhalation -
Frequency: Long Term, local effects
Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
Worker Professional: 212 mg/kg - Consumer: 125 mg/kg - Exposure: Human Dermal -
Frequency: Long Term (repeated)
Worker Professional: 221 mg/m³ - Consumer: 65.3 mg/m³ - Exposure: Human Inhalation -
Frequency: Long Term (repeated)
Consumer: 12.5 mg/kg/day - Exposure: Human Oral - Frequency: Long Term (repeated)
2-methoxy-1-methylethyl acetate - CAS: 108-65-6
Worker Professional: 153.5 mg/kg - Consumer: 320 mg/kg - Exposure: Human Dermal -
Frequency: Short Term, systemic effects
Worker Professional: 275 mg/m³ - Consumer: 33 mg/m³ - Exposure: Human Inhalation -
Frequency: Long Term, local effects
Consumer: 36 mg/kg/day - Exposure: Human Oral - Frequency: Long Term (repeated)
Worker Professional: 550 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term,
local effects
Worker Professional: 796 mg/kg/day - Consumer: 320 mg/kg - Exposure: Human Dermal
- Frequency: Long Term (repeated)
n-butyl acetate - CAS: 123-86-4
Consumer: 102.34 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local
effects
Worker Professional: 960 mg/m³ - Consumer: 859.7 mg/m³ - Exposure: Human Inhalation
- Frequency: Short Term, systemic effects
Worker Professional: 960 mg/m³ - Consumer: 859.7 mg/m³ - Exposure: Human Inhalation
- Frequency: Short Term, local effects
Worker Professional: 480 mg/m³ - Consumer: 102.34 mg/m³ - Exposure: Human
Inhalation - Frequency: Long Term, systemic effects

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Worker Professional: 480 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Trizinc bis(orthophosphate) - CAS: 7779-90-0
Worker Professional: 5 mg/m³ - Consumer: 2.5 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 83 mg/kg - Consumer: 83 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 0.83 mg/kg - Exposure: Human Oral - Frequency: Long Term (repeated)

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
Worker Professional: 75 mg/kg - Consumer: 38 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 98 mg/m³ - Consumer: 49 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 3.2 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

ethyl acetate - CAS: 141-78-6
Worker Professional: 1468 mg/m³ - Consumer: 734 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Consumer: 4.5 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
Worker Professional: 734 mg/m³ - Consumer: 367 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
Worker Professional: 1468 mg/m³ - Consumer: 734 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Professional: 63 mg/kg - Consumer: 37 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 734 mg/m³ - Consumer: 367 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

zinc oxide - CAS: 1314-13-2
Worker Professional: 5 mg/m³ - Consumer: 2.5 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 83 mg/kg - Consumer: 83 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 0.83 mg/kg - Exposure: Human Oral - Frequency: Long Term (repeated)

PNEC Exposure Limit Values

acetone - CAS: 67-64-1
Target: Purification plant - Value: 100 mg/l
Target: Intermittent emissions - Value: 21 mg/l
Target: Freshwater sediments - Value: 30.4 mg/kg
Target: Marine water sediments - Value: 3.04 mg/kg
Target: Soil - Value: 33.3 mg/kg
Target: Fresh Water - Value: 10.6 mg/kg
Target: Marine water - Value: 1.06 mg/l

Xylene - CAS: 1330-20-7
Target: Purification plant - Value: 6.58 mg/l
Target: Marine water - Value: 0.32 mg/l
Target: Intermittent emissions - Value: 0.32 mg/l
Target: Freshwater sediments - Value: 12.46 mg/kg
Target: Marine water sediments - Value: 12.46 mg/kg
Target: Soil - Value: 2.31 mg/kg
Target: Fresh Water - Value: 0.32 mg/l

2-methoxy-1-methylethyl acetate - CAS: 108-65-6
Target: Intermittent emissions - Value: 100 mg/l
Target: Freshwater sediments - Value: 3.29 mg/kg
Target: Marine water sediments - Value: 0.329 mg/kg
Target: Soil - Value: 0.29 mg/kg
Target: Fresh Water - Value: 0.635 mg/l
Target: Marine water - Value: 0.0635 mg/l
Target: 14 - Value: 6.35 mg/l
Target: Purification plant - Value: 100 mg/l

n-butyl acetate - CAS: 123-86-4

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Target: STP - Value: 35.6 mg/l
Target: Fresh Water - Value: 0.18 mg/l
Target: Marine water - Value: 0.01 mg/l
Target: Intermittent emissions - Value: 0.36 mg/l
Target: Freshwater sediments - Value: 0.98 mg/kg
Target: Marine water sediments - Value: 0.09 mg/kg
Target: Soil - Value: 0.09 mg/kg

Trizinc bis(orthophosphate) - CAS: 7779-90-0
Target: Fresh Water - Value: 20.6 µgZn/L
Target: Marine water - Value: 6.1 µgZn/L
Target: Freshwater sediments - Value: 117.8 mgZn/kg - Notes: sediment dw
Target: Marine water sediments - Value: 56.5 mgZn/kg - Notes: sediment dw
Target: Soil - Value: 35.6 mgZn/kg - Notes: soil dw
Target: Purification plant - Value: 100 µgZn/L

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
Target: Purification plant - Value: 463 mg/l
Target: Freshwater sediments - Value: 34.6 mg/kg
Target: Marine water sediments - Value: 3.46 mg/kg
Target: Soil - Value: 3.13 mg/kg
Target: Intermittent emissions - Value: 9.1 mg/l

ethyl acetate - CAS: 141-78-6
Target: Fresh Water - Value: 0.26 mg/l
Target: Marine water - Value: 0.026 mg/l
Target: Intermittent emissions - Value: 1.65 mg/l
Target: Purification plant - Value: 650 mg/l
Target: Freshwater sediments - Value: 1.25 mg/kg
Target: Marine water sediments - Value: 0.125 mg/kg
Target: Soil - Value: 0.24 mg/kg
Target: Oral - Value: 0.2 g/kg

zinc oxide - CAS: 1314-13-2
Target: Fresh Water - Value: 20.6 µgZn/L
Target: Marine water - Value: 6.1 µgZn/L
Target: Freshwater sediments - Value: 117.8 mgZn/kg - Notes: sediment dw
Target: Marine water sediments - Value: 56.5 mgZn/kg - Notes: sediment dw
Target: Soil - Value: 35.6 mgZn/kg - Notes: soil dw
Target: Purification plant - Value: 100 µgZn/L

Biological Exposure Index

acetone - CAS: 67-64-1
Value: 50 mg/L - medium: Urine - Biological Indicator: Acetone in urine - Sampling Period:
End of turn

Xylene - CAS: 1330-20-7
Value: 1.5 g/g - medium: Urine - Biological Indicator: Creatinine in urine - Sampling
Period: End of turn

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
Value: 200 mg/g creatinine - medium: Urine - Biological Indicator: Creatinine in urine -
Sampling Period: End of turn

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles and/or visor conforming to BS 2092 GRADE 1).

Protection for skin:

Wear safety clothing that ensure full skin protection in accordance to EN 14605 Type 4 in case of spills or spray (e.g. Tyrek). Please note: safety clothing must be changed immediately if it comes in contact with product.

Protection for hands:

Use protective gloves that provides comprehensive protection, EN374 Class 3 (F). Permeation time > 60 minutes; 0.4 mm thickness.

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Use adequate protective respiratory devices, using Filter "A" (Brown colour) for organic gas and

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vapors with boiling points over 65°C.

Thermal Hazards:

None

Environmental exposure controls:

Emissions from ventilation systems or from work processes must be checked as to ensure compliance to environmental protection legislation. In some cases the addition of vapour scrubbers, filters or other system modification may be necessary in order to reduce emissions to acceptable levels.

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Liquid Gas	--	--
Colour:	Grey	--	--
Odour:	Typical del solvente	--	--
Odour threshold:	N.D.	--	--
Melting point/freezing point:	N.D.	--	--
Boiling point or initial boiling point and boiling range:	< 0 °C	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	1,9 Vol % (LEL) - 15,0 Vol % (UEL)	--	--
Flash point:	<0 °C	--	--
Auto-ignition temperature:	> 300°C	--	--
Decomposition temperature:	N.D.	--	--
pH:	N.A.	--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	Insoluble	--	--
Solubility in oil:	N.D.	--	--
Partition coefficient n-octanol/water (log value):		--	--
Vapour pressure:	4,5 ± 0,2 bar (20°C)	--	--
Density and/or relative density:	0.75 g/cm ³	--	--

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Relative vapour density:	> 2 g/cm ³	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information

Properties	Value	Method:	Notes
Explosive properties:	N.D.	--	--
Evaporation rate:	N.D.	--	--
Viscosity:	N.D.	--	--
Oxidizing properties:	N.D.	--	--

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under recommended use and storage conditions (see point 7).

10.3. Possibility of hazardous reactions

It may catch fire on contact with oxidising mineral acids, and powerful oxidising agents.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

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

Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

acetone - CAS: 67-64-1

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 21.09 ppm - Duration: 8h

Test: LD50 - Route: Oral - Species: Rat = 5800 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 20 ml/kg

b) skin corrosion/irritation:

Test: Eye Irritant Positive

Xylene - CAS: 1330-20-7

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 6700 ppm - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat = 5627 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 2000 ppm - Duration: 3h

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/l

n-butyl acetate - CAS: 123-86-4

a) acute toxicity:

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Test: LD50 - Route: Oral - Species: Rat > 6400 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 21.1 mg/l - Duration: 4h

Trizinc bis(orthophosphate) - CAS: 7779-90-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 5.7 mg/l - Duration: 4h

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 3 mg/l - Duration: 4h

ATE - Oral 1200 mg/kg bw

ATE - Inhalation (Vapours) 3 mg/l

Test: LD50 - Route: Oral - Species: Rat = 200-2000 mg/kg

ATE - Oral 1200 mg/kg bw

ATE - Inhalation (Vapours) 3 mg/l

Test: LD50 - Route: Skin - Species: Rat = 400-2000 mg/kg

ATE - Oral 1200 mg/kg bw

ATE - Inhalation (Vapours) 3 mg/l

c) serious eye damage/irritation:

Test: Eye Irritant Positive

ethyl acetate - CAS: 141-78-6

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 1600 mg/l

Test: LD50 - Route: Oral - Species: Rabbit = 4935 mg/kg

Test: LD50 - Route: Oral - Species: Rat = 11.3 g/kg

Fatty acids, C14-18 and C16-18-unsatd., maleated - CAS: 85711-46-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2.000 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin - Species: Rabbit Positive

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Skin - Species: Mouse Positive

Fatty acids C18 with oleylamine - CAS: 147900-93-4

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Skin Positive

maleic anhydride - CAS: 108-31-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1090 mg/kg bw

Test: LD50 - Route: Skin - Species: Rabbit = 2620 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 4.35 mg/l - Duration: 1h

Xylene - CAS: 1330-20-7

Inhalation: Harmful if inhaled. Very high concentrations of xylene lead to the progressive inhibition of the central nervous system (CNS),

followed by coma, respiratory weakness, and finally absence of cerebral blood flow and death. High concentrations cause coma and respiratory weakening, destabilize the function of the kidneys and lead to liver damage. At low concentrations, irritation of the eyes, nasopharynx, illness, irritation, slow reaction times and reduced short-term memory occur. Vapors of xylene can cause dizziness, headache, nausea, mental confusion.

Ingestion: In the event of ingestion of xylene, the injured person has a burning sensation and stomach ache, in case of aspiration there is a danger of chemical pneumonitis and pulmonary edema. Skin Contact: May be harmful if absorbed through the skin. Causes skin irritation. Contact with eyes: Vapors of xylene and xylene in liquid form irritate the eyes and membranes.

n-butyl acetate - CAS: 123-86-4

Components of the product can be absorbed by the body by inhalation. Main symptoms: Dizziness, narcosis, Cough, nausea, vomiting, headache, unconsciousness, shortness of breath. Repeated exposure can cause skin dryness and cracking.

If not differently specified, the information required in Regulation (EU)2020/878 listed below must be

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considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

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.

acetone - CAS: 67-64-1

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 8120 mg/l - Duration h: 96

Endpoint: EC50 - Species: Algae = 530 mg/l - Duration h: 192

Endpoint: EC50 - Species: Daphnia = 8800 mg/l - Duration h: 48

Xylene - CAS: 1330-20-7

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 1 mg/l - Duration h: 24

Endpoint: EC50 - Species: Algae = 4.36 mg/l - Duration h: 73

Endpoint: LC50 - Species: Fish = 2.6 mg/l - Duration h: 96

Endpoint: NOEC - Species: Algae = 0.44 mg/l - Duration h: 73

Endpoint: NOEC - Species: Daphnia = 1.57 mg/l - Duration h: 504

Endpoint: NOEC - Species: Fish = 1.3 mg/l - Duration h: 1344

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae > 1000 mg/l - Duration h: 96

Endpoint: NOEC - Species: Fish = 47.5 mg/l - Duration h: 336

Endpoint: NOEC - Species: Daphnia > 100 mg/l - Duration h: 504

Endpoint: NOEC - Species: Algae > 1000 mg/l - Duration h: 96

Endpoint: LC50 - Species: Fish = 100 mg/l - Duration h: 96

Endpoint: LC50 - Species: Daphnia = 408 mg/l - Duration h: 48

n-butyl acetate - CAS: 123-86-4

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 44 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 648 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish = 18 mg/l - Duration h: 96

Trizinc bis(orthophosphate) - CAS: 7779-90-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 0.14-2.6 mg/l - Duration h: 96 - Notes: mg Zn²⁺ /l

Endpoint: EC50 - Species: Daphnia = 0.04-0.86 mg/l - Duration h: 48 - Notes: mg Zn²⁺ /l

Endpoint: EC50 - Species: Algae = 0.13-0.15 mg/l - Duration h: 72 - Notes: mg Zn²⁺ /l

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 1550 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 911 mg/l - Duration h: 72

Endpoint: EC50 - Species: Fish = 1474 mg/l - Duration h: 96

ethyl acetate - CAS: 141-78-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 230 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 165 mg/l - Duration h: 48

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- Endpoint: NOEC - Species: Algae > 100 mg/l - Duration h: 72
- b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Daphnia = 2.4 mg/l - Duration h: 504
- c) Bacteria toxicity:
Endpoint: EC50 - Species: Bacteria = 5870 mg/l - Duration h: 0.25
- Fatty acids, C14-18 and C16-18-unsatd., maleated - CAS: 85711-46-2
- a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 150 mg/l - Duration h: 48
Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72
- zinc oxide - CAS: 1314-13-2
- a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 1 mg/l
- maleic anhydride - CAS: 108-31-6
- a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 75 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 42.81 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae = 74.35 mg/l - Duration h: 72
- b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Daphnia = 10 mg/l - Duration h: 504
- 12.2. Persistence and degradability
Non-readily biodegradable
- 12.3. Bioaccumulative potential
Not bioaccumulative
- 12.4. Mobility in soil
Do not mix with waste water, rain or surface water. Floats on water, evaporates from liquid and solid surfaces but a significant amount may penetrate and pollute water table.
- 12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None
- 12.6. Endocrine disrupting properties
No endocrine disruptor substances present in concentration $\geq 0.1\%$
- 12.7. Other adverse effects
None

SECTION 13: Disposal considerations

- 13.1. Waste treatment methods
The empty containers must be considered special waste materials to take to dump of type 2B. If previously cleansed, they can be admitted in first class dumps.
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. DO NOT discharge into sewers, watercourses, ponds, canals or ditches. Empty product containers must be completely drained and stored safely until appropriately processes or disposed. Empty containers must be recycled, recovered or disposed of by a qualified and authorized company operating in compliance with current recycling, recovery and disposal regulations. It is advisable to provide the desposal company with all safety information of the material contained in the empty packaging. DO NOT pressurize, DO NOT cut, DO NOT weld, DO NOT puncture, DO NOT crush, DO NOT expose empty containers to heat, flames, sparks, electrostatic discharge or other sources of ignition.

SECTION 14: Transport information



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- 14.1. UN number or ID number
ADR-UN Number: 1950
IATA-UN Number: 1950
IMDG-UN Number: 1950
- 14.2. UN proper shipping name
ADR-Shipping Name: AEROSOLS, flammable
IATA-Shipping Name: AEROSOLS, flammable
IMDG-Shipping Name: AEROSOLS, flammable
- 14.3. Transport hazard class(es)
ADR-Class: 2
ADR-Label: 2
ADR - Hazard identification number: -
IATA-Class: 2
IATA-Label: 2.1
IMDG-Class: 2
IMDG-Class: 2
- 14.4. Packing group
ADR-Packing Group: -
IATA-Packing group: -
IMDG-Packing group: -
- 14.5. Environmental hazards
ADR-Environmental Pollutant: No
IMDG-Marine pollutant: No
IMDG-EmS: F-D , S-U
- 14.6. Special precautions for user
ADR-Subsidiary hazards: See SP63
ADR-S.P.: 190 327 344 625
ADR-Transport category (Tunnel restriction code): 2 (D)
IATA-Passenger Aircraft: 203
IATA-Subsidiary hazards: See SP63
IATA-Cargo Aircraft: 203
IATA-S.P.: A145 A167 A802
IATA-ERG: 10L
IMDG-Subsidiary hazards: See SP63
IMDG-Stowage and handling: SW1 SW22
IMDG-Segregation: SG69
- 14.7. Maritime transport in bulk according to IMO instruments
N.A.
-

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. 2020/878
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)

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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)

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:

Restriction 40

Restrictions related to the substances contained:

Restriction 29

Restriction 75

Volatile CMR substances = 0.00 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

Organic Carbon - C = 0.36

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

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

Seveso III category according to Annex 1, part 1

Product belongs to category: P3a, E2

15.2. Chemical safety assessment

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

SECTION 16: Other information

Full text of phrases referred to in Section 3:

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.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H331 Toxic if inhaled.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

H372 Causes damage to organs (Respiratory system) through prolonged or repeated exposure if inhaled.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

EUH071 Corrosive to the respiratory tract.

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Hazard class and hazard category	Code	Description
Aerosols 1	2.3/1	Aerosol, Category 1
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 3	3.1/3/Inhal	Acute toxicity (inhalation), Category 3
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Resp. Sens. 1	3.4.1/1	Respiratory Sensitisation, Category 1
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1,1A,1B	3.4.2/1-1A-1B	Skin Sensitisation, Category 1,1A,1B
Skin Sens. 1A	3.4.2/1A	Skin Sensitisation, Category 1A
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 1	3.9/1	Specific target organ toxicity - repeated exposure, Category 1
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

This safety data sheet has been completely updated in compliance to Regulation 2020/878. Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

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Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Aerosols 1, H222, H229	On basis of test data
Acute Tox. 4, H332	Calculation method
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1A, H317	Calculation method
STOT SE 3, H335	Calculation method
STOT SE 3, H336	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Chronic 2, H411	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.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
N.A.:	Not available
N.D.:	Not determined.
PNEC:	Predicted No Effect Concentration.
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.
TWA:	Time-weighted average

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