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

1.1. Product identifier

Product form : Mixture
Trade name : AIA-PACK Serie 9
Product group : IN VITRO DIAGNOSTIC USE ONLY
Document no. : See annex

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

1.2.1. Relevant identified uses

Main use category : Professional uses
Use of the substance/mixture : Laboratory use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Tosoh Europe NV
Transportstraat 4
3980 Tessenderlo
Belgium
T +32 13 66 88 30, F +32 13 66 47 49
info.raqa.eu@tosoh.com

Manufacturer

Tosoh Corporation
2-2-1 Yaesu, Chuo-ku
104-0028 Tokyo
Japan

1.4. Emergency telephone number

| Country/Area | Organisation/Company | Address | Emergency number | Comment |
|--------------|----------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------|---------|
| Ireland | National Poisons Information Centre Beaumont Hospital | PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazardous to the aquatic environment – Chronic H412
Hazard, Category 3
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word : -

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Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.
 Precautionary statements (CLP) : P273 - Avoid release to the environment.
 P501 - Dispose of contents and container to an approved waste disposal plant.
 Extra phrases : EUH032 - Contact with acids liberates very toxic gas.

2.3. Other hazards

Other hazards : Results of PBT and vPvB assessment : Not applicable. Risk of dust explosion.

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Reagent
(lyophilised)

| Substance name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-------------------|--------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------|
| Sodium salicylate | CAS-No.: 54-21-7 EC-No.: 200-198-0 | < 10 | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) |
| sodium azide | CAS-No.: 26628-22-8 EC-No.: 247-852-1 EC Index: 011-004-00-7 | 0,25 - <2 | Acute Tox. 2 (Oral), H300 (ATE=5 mg/kg) Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| zinc chloride | CAS-No.: 7646-85-7 EC-No.: 231-592-0 EC Index: 030-003-00-2 | 0,1 - <0,5 | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1B, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

Specific concentration limits:

| Substance name | Product identifier | Specific concentration limits (%) |
|----------------|-------------------------------------------------------------------|------------------------------------|
| zinc chloride | CAS-No.: 7646-85-7 EC-No.: 231-592-0 EC Index: 030-003-00-2 | (5 \leq C < 100) STOT SE 3, H335 |

Full text of H- and EUH-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

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| Additional advice | : First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance. Treat symptomatically. |
| Inhalation | : Remove casualty to fresh air and keep warm and at rest. Give oxygen or artificial respiration if necessary. In case of doubt or persistent symptoms, consult always a physician. |
| Skin contact | : Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician. |
| Eyes contact | : Rinse immediately carefully and thoroughly with eye-bath or water. In case of doubt or persistent symptoms, consult always a physician. |
| Ingestion | : Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Get medical advice/attention. |

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

| | |
|------------------|--------------------------------------------------------------------------------------------|
| Symptoms/effects | : Not expected to present a significant hazard under anticipated conditions of normal use. |
| Inhalation | : May be harmful if inhaled. May cause respiratory irritation. |
| Skin contact | : May be harmful if absorbed through skin. May cause skin irritation. |
| Eyes contact | : May cause eye irritation. |
| Ingestion | : May be harmful if swallowed. |

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

No data available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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|--------------------------------|----------------------------------------------------------------------|
| Suitable extinguishing media | : carbon dioxide (CO2), powder, alcohol-resistant foam, water spray. |
| Unsuitable extinguishing media | : Strong water jet. |

5.2. Special hazards arising from the substance or mixture

| | |
|--------------------------------------------------|------------------------------------------|
| Specific hazards | : Not flammable. Risk of dust explosion. |
| Hazardous decomposition products in case of fire | : Unknown. |

5.3. Advice for firefighters

| | |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions | : Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment. Avoid dust formation. Knock down/dilute dust cloud with water spray. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. |
| Other information | : Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation. |

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

For non-emergency personnel : Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed. Use explosion-proof equipment. Use only non-sparking tools.

6.1.2. For emergency responders

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Provide adequate ventilation. Stop leak if safe to do so. Dam up the solid spill. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Large spills: scoop solid spill into closing containers. This material and its container must be disposed of in a safe way, and as per local legislation. Avoid dust formation. Knock down/dilute dust cloud with water spray.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe dust. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment. Avoid dust formation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools.

Hygiene measures : Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

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7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep container tightly closed in a cool, well-ventilated place. Keep only in the original container. Protect from moisture. Do not store near or with any of the incompatible materials listed in section 10. Recommended storage temperature : 2-8°C.

7.3. Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| sodium azide (26628-22-8) | |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | Sodium azide |
| IOEL TWA | 0,1 mg/m ³ |
| IOEL STEL | 0,3 mg/m ³ |
| Remark | Possibility of significant uptake through the skin |
| Regulatory reference | COMMISSION DIRECTIVE 2000/39/EC |
| Albania - Occupational Exposure Limits | |
| Local name | Azid natriumi |
| OEL TWA | 0,1 mg/m ³ |
| OEL STEL | 0,3 mg/m ³ |
| Remark | Lëkurë (tregon mundësinë e një marrjeje të rëndësishme nëpërmjet lëkurës) |
| Regulatory reference | VENDIM Nr. 522, datë 6.8.2014 PËR MIRATIMIN E RREGULLORES "PËR MBROJTJEN E SIGURISË DHE SHËNDETIT TË PUNËMARRËSVE NGA RISQET E LIDHURA ME AGJENTËT KIMIKE NË PUNË" |
| Austria - Occupational Exposure Limits | |
| Local name | Natriumazid |
| MAK (OEL TWA) | 0,1 mg/m ³ |
| MAK (OEL STEL) | 0,3 mg/m ³ |
| Remark | H |
| OEL chemical category | Skin notation |
| Regulatory reference | BGBI. II Nr. 156/2021 |
| Belgium - Occupational Exposure Limits | |
| Local name | Sodium (azoture de) # Natriumazide |
| OEL TWA | 0,1 mg/m ³ |
| OEL STEL | 0,3 mg/m ³ |

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sodium azide (26628-22-8)

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| Remark | D: la mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air, M: la mention "M" indique que lors d'une exposition supérieure à la valeur limite, des irritations apparaissent ou un danger d'intoxication aiguë existe. Le procédé de travail doit être conçu de telle façon que l'exposition ne dépasse jamais la valeur limite. Lors des mesurages, la période d'échantillonnage doit être aussi courte que possible afin de pouvoir effectuer des mesurages fiables. Le résultat des mesurages est calculé en fonction de la période d'échantillonnage. # D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht, M: de vermelding "M" duidt aan dat bij de blootstelling boven de grenswaarde irritatie optreedt of er gevaar bestaat voor acute vergiftiging. Het werkprocédé moet zo zijn ontworpen dat de blootstelling de grenswaarde nooit overschrijdt. Bij een controle geldt dat de bemonsterde periode zo kort mogelijk moet zijn om een betrouwbare meting te kunnen verrichten. Het meetresultaat wordt dan gerelateerd aan de beschouwde periode. |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| | |
|-----------------------|--------------------------------------------|
| OEL chemical category | Skin, Skin notation |
| Regulatory reference | Koninklijk besluit/Arrêté royal 16/11/2023 |

Bulgaria - Occupational Exposure Limits

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Local name | Натриев азид |
| OEL TWA | 0,1 mg/m ³ |
| OEL STEL | 0,3 mg/m ³ |
| Remark | Кожа (възможна е значителна резорбция чрез кожата); • (Химични агенти, за които са определени гранични стойности във въздуха на работната среда за Европейската общност) |
| Regulatory reference | Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 47 от 2021 г., в сила от 04.06.2021 г.) |

Croatia - Occupational Exposure Limits

| | |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Local name | Natrijev azid |
| GVI (OEL TWA) | 0,1 mg/m ³ |
| KGVI (OEL STEL) | 0,3 mg/m ³ |
| Remark | Direktiva: 2000/39/EZ. Napomena: Koža (razvrstana kao tvar koja nadražuje kožu (H315)) |
| OEL chemical category | Skin notation |
| Regulatory reference | Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 148/2023) |

Cyprus - Occupational Exposure Limits

| | |
|------------|-----------------------|
| Local name | Αζίδιο του νατρίου |
| OEL TWA | 0,1 mg/m ³ |

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|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| sodium azide (26628-22-8) | |
| OEL STEL | 0,3 mg/m ³ |
| OEL chemical category | Skin-potential for cutaneous absorption |
| Remark | δέρμα |
| Regulatory reference | Κανονισμοί του 2007 (Κ.Δ.Π. 295/2007) |
| Czech Republic - Occupational Exposure Limits | |
| Local name | Azid sodný |
| PEL (OEL TWA) | 0,1 mg/m ³ |
| NPK-P (OEL C) | 0,3 mg/m ³ |
| Remark | D - při expozici se významně uplatňuje pronikání faktoru kůže, I - dráždí sliznice (oči, dýchací cesty) resp. kůže. |
| OEL chemical category | Potential for cutaneous absorption |
| Regulatory reference | Nařízení vlády č. 361/2007 Sb. (Předpis 330/2023 Sb.) |
| Denmark - Occupational Exposure Limits | |
| Local name | Natriumazid |
| OEL TWA | 0,1 mg/m ³ |
| OEL STEL | 0,3 mg/m ³ |
| Remark | E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden) |
| OEL chemical category | Potential for cutaneous absorption |
| Regulatory reference | BEK nr 202 af 21/02/2023 |
| Estonia - Occupational Exposure Limits | |
| Local name | Naatriumasiid |
| OEL TWA | 0,1 mg/m ³ |
| OEL STEL | 0,3 mg/m ³ |
| Remark | A (Naha kaudu kergesti imenduv aine), S (Sensibiliseeriv aine) |
| OEL chemical category | Skin notation, Sensitizer |
| Regulatory reference | Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 21.12.2022, 3) |
| Finland - Occupational Exposure Limits | |
| Local name | Natriumatsidi |
| HTP (OEL TWA) | 0,1 mg/m ³ |
| HTP (OEL STEL) | 0,3 mg/m ³ |
| Remark | Iho |
| OEL chemical category | Potential for cutaneous absorption |
| Regulatory reference | HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö) |
| France - Occupational Exposure Limits | |
| Local name | Azide de sodium |

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| sodium azide (26628-22-8) | |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VME (OEL TWA) | 0,1 mg/m ³ (restrictive limit) |
| VLE (OEL C/STEL) | 0,3 mg/m ³ (restrictive limit) |
| Remark | Valeurs réglementaires contraignantes. Risque de pénétration percutanée |
| OEL chemical category | Risk of cutaneous absorption |
| Regulatory reference | Article R4412-149 du Code du travail (réf.: INRS ED 6443, 2022; Outil65; Décret n° 2019-1487; Décret n° 2020-1546; Décret n° 2021-434; Décret n° 2021-1849) |

| Germany - Occupational Exposure Limits (TRGS 900) | |
|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Local name | Natriumazid |
| Occupational exposure limit value (mg/m ³) (TRGS900) | 0,2 mg/m ³ |
| Peak exposure limitation factor | 2(I) |
| Remark | DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich) |
| Regulatory reference | TRGS900 |

| Gibraltar - Occupational Exposure Limits | |
|-------------------------------------------------|--------------------------------------------------------------------------------|
| Local name | Sodium azide |
| OEL TWA | 0,1 mg/m ³ |
| OEL STEL | 0,3 mg/m ³ |
| Remark | Skin |
| OEL chemical category | Skin notation |
| Regulatory reference | Factories (Control of Chemical Agents at Work) Regulations 2003 (LN. 2018/181) |

| Greece - Occupational Exposure Limits | |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Local name | Νατράζιδιο |
| OEL TWA | 0,3 mg/m ³ |
| | 0,1 ppm |
| OEL STEL | 0,3 mg/m ³ |
| | 0,1 ppm |
| Regulatory reference | Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους |

| Hungary - Occupational Exposure Limits | |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Local name | NÁTRIUM-AZID |
| AK (OEL TWA) | 0,1 mg/m ³ |
| CK (OEL STEL) | 0,3 mg/m ³ |
| Remark | EU1 (2000/39/EK irányelvben közölt érték); N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok) |

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| sodium azide (26628-22-8) | |
| Regulatory reference | 5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről |
| Ireland - Occupational Exposure Limits | |
| Local name | Sodium azide (as NaN ₃) |
| OEL TWA | 0,1 mg/m ³ |
| OEL STEL | 0,3 mg/m ³ |
| Remark | Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values) |
| OEL chemical category | Potential for cutaneous absorption |
| Regulatory reference | Chemical Agents Code of Practice 2021 |
| Italy - Occupational Exposure Limits | |
| Local name | Azoturo di sodio |
| OEL TWA | 0,1 mg/m ³ |
| OEL STEL | 0,3 mg/m ³ |
| Remark | Cute |
| OEL chemical category | skin - potential for cutaneous absorption |
| Regulatory reference | Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i. |
| Latvia - Occupational Exposure Limits | |
| Local name | Nātrija azīds |
| OEL TWA | 0,1 mg/m ³ |
| OEL STEL | 0,3 mg/m ³ |
| Remark | Āda |
| OEL chemical category | skin - potential for cutaneous exposure |
| Regulatory reference | Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92) |
| Lithuania - Occupational Exposure Limits | |
| Local name | Natrio azidas |
| IPRV (OEL TWA) | 0,1 mg/m ³ |
| TPRV (OEL STEL) | 0,3 mg/m ³ |
| Remark | O (medžiaga į organizmą gali prasiskverbti pro nepažeistą odą); Ū (ūmus poveikis) |
| OEL chemical category | Skin notation |
| Regulatory reference | LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12) |
| Luxembourg - Occupational Exposure Limits | |
| Local name | Azide de sodium |
| OEL TWA | 0,1 mg/m ³ |
| OEL STEL | 0,3 mg/m ³ |

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| sodium azide (26628-22-8) | |
| OEL chemical category | Possibility of significant uptake through the skin |
| Remark | Peau |
| Regulatory reference | Mémorial A N° 226 de 2021 concernant la protection de la sécurité et de la santé des salariés contre les risques liés à des agents chimiques sur le lieu de travail |
| Malta - Occupational Exposure Limits | |
| Local name | Sodium azide |
| OEL TWA | 0,1 mg/m ³ |
| OEL STEL | 0,3 mg/m ³ |
| Remark | Skin # Gilda |
| OEL chemical category | Possibility of significant uptake through the skin |
| Regulatory reference | S.L.424.24 - Chemical Agents at Work Regulations (L.N.356 of 2021) |
| Netherlands - Occupational Exposure Limits | |
| Local name | Natriumazide |
| TGG-8u (OEL TWA) | 0,1 mg/m ³ |
| TGG-15min (OEL STEL) | 0,3 mg/m ³ |
| Remark | H (Huidopname) Stoffen die relatief gemakkelijk door de huid kunnen worden opgenomen, hetgeen een substantiële bijdrage kan betekenen aan de totale inwendige blootstelling, hebben in de lijst een H-aanduiding. Bij deze stoffen moeten naast maatregelen tegen inademing ook adequate maatregelen ter voorkoming van huidcontact worden genomen. |
| MAC chemical category | Skin notation |
| Regulatory reference | Arbeidsomstandighedenregeling 2024 |
| Poland - Occupational Exposure Limits | |
| Local name | Azydek sodu |
| NDS (OEL TWA) | 0,1 mg/m ³ |
| NDSch (OEL STEL) | 0,3 mg/m ³ |
| Remark | Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową). |
| Regulatory reference | Dz. U. 2018 poz. 1286 wraz z późn. zm. |
| Portugal - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | Azida de sódio |
| IOEL TWA | 0,1 mg/m ³ |
| IOEL STEL | 0,3 mg/m ³ |
| Remark | Cutânea. |
| Regulatory reference | Decreto-Lei n.º 1/2021 de 6 de janeiro |
| Portugal - Occupational Exposure Limits | |
| Local name | Azida de sódio |

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| sodium azide (26628-22-8) | |
| OEL TWA | 0,1 mg/m ³ (indicative limit value) |
| OEL STEL | 0,3 mg/m ³ (indicative limit value) |
| OEL C | 0,29 mg/m ³ |
| | 0,11 ppm (vapor) |
| OEL chemical category | A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure indicative limit value |
| Remark | A4 (Agente não classificável como carcinogénico no Homem) |
| Regulatory reference | Norma Portuguesa NP 1796:2014 |
| Romania - Occupational Exposure Limits | |
| Local name | Azidă de sodiu |
| OEL TWA | 0,1 mg/m ³ |
| OEL STEL | 0,3 mg/m ³ |
| OEL chemical category | Skin notation |
| Remark | P - posibilitatea unei penetrări cutanate importante |
| Regulatory reference | Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021) |
| Serbia - Occupational Exposure Limits | |
| Local name | натријум-азид |
| OEL TWA | 0 mg/m ³ |
| OEL STEL | 0 mg/m ³ |
| Remark | EY* – напомена да се ради о хемијским материјама за које су утврђене индикативне граничне вредности изложености према Директиви 2000/39/EЗ (прва листа); К – напомена да хемијска материја може штетно деловати на кожу |
| Regulatory reference | ПРАВИЛНИК о превентивним мерама за безбедан и здрав рад при излагању хемијским материјама („Службени гласник РС”, бр. 106/09, 117/17 и 107/21) |
| Slovakia - Occupational Exposure Limits | |
| Local name | Azid sodný |
| NPHV (OEL TWA) | 0,1 mg/m ³ (Sodium azide) |
| NPHV (OEL STEL) | 0,3 mg/m ³ |
| NPHV (OEL C) | 0,3 mg/m ³ |
| Remark | K - znamená, že faktor môže byť ľahko absorbovaný kožou |
| OEL chemical category | Potential for cutaneous absorption |
| Regulatory reference | Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.) |
| Slovenia - Occupational Exposure Limits | |
| Local name | natrijev azid |
| OEL TWA | 0,1 mg/m ³ |
| OEL STEL | 0,3 mg/m ³ |

| | | |
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| | |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| sodium azide (26628-22-8) | |
| Remark | K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), EU |
| OEL chemical category | Potential for cutaneous absorption |
| Regulatory reference | Uradni list RS, št. 72/2021 z dne 11.5.2021 |
| Spain - Occupational Exposure Limits | |
| Local name | Azida de sodio (Aziduro de sodio; Trinitruro de sodio) |
| VLA-ED (OEL TWA) | 0,1 mg/m³ (indicative limit value) |
| VLA-EC (OEL STEL) | 0,3 mg/m³ |
| Remark | Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo). |
| OEL chemical category | skin - potential for cutaneous absorption |
| Regulatory reference | Límites de Exposición Profesional para Agentes Químicos en España 2024. INSHT |
| Sweden - Occupational Exposure Limits | |
| Local name | Natriumazid |
| NGV (OEL TWA) | 0,1 mg/m³ |
| KGV (OEL STEL) | 0,3 mg/m³ |
| Regulatory reference | Hygieniska gränsvärden (AFS 2018:1) |
| United Kingdom - Occupational Exposure Limits | |
| Local name | Sodium azide |
| WEL TWA (OEL TWA) | 0,1 mg/m³ |
| WEL STEL (OEL STEL) | 0,3 mg/m³ |
| Remark | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| WEL chemical category | Potential for cutaneous absorption |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |
| Iceland - Occupational Exposure Limits | |
| Local name | Natriumasíð |
| OEL TWA | 0,1 mg/m³ |
| OEL STEL | 0,3 mg/m³ |
| Remark | H (efnið getur auðveldlega borist inn í líkamann gegnum húð) |
| Regulatory reference | Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009) |
| Norway - Occupational Exposure Limits | |
| Local name | Natriumazid |

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|----------------------------------|----------------------------------------------------------------------|
| sodium azide (26628-22-8) | |
| Grenseverdi (OEL TWA) | 0,1 mg/m ³ |
| Korttidsverdi (OEL STEL) | 0,3 mg/m ³ (value from the regulation) |
| Remark | E: EU har en veiledende grenseverdi og/eller anmerkning for stoffet. |
| Regulatory reference | FOR-2023-12-18-2278 |

| | |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| North Macedonia - Occupational Exposure Limits | |
| Local name | натриум азид |
| OEL TWA | 0,1 mg/m ³ |
| KTV | 3 |
| Short time value [mg/m ³] | 0,3 mg/m ³ |
| Remark | (KTV) краткотрајна вредност (КТВ) значи концентрација на опасни хемиски супстанции во воздухот на работното место внатре во зона на дишење, на која работникот без опасност по здравјето може да е изложен на покусо време. Изложеноста на краткотрајни вредности може да трае највеќе 15 минути и не смее да се повтори повеќе од четирипати во работната смена, при што меѓу две изложености на оваа концентрација мора да измине најмалку 60 минути. Краткотрајната вредност е изразена во mg/m ³ или во ml/m ³ (ppm) а е дадена како многукратни дозволени пречекорувања на граничната вредност; (K) својство на полесно пренесување на супстанците во организмот преку кожата; (EU) European Union – гранична вредност, определена на ниво на Европската унија |
| Regulatory reference | Правилник за минималните барања за безбедност и здравје при работа на вработени од ризици поврзани со изложување на хемиски супстанции („Службен весник на Република Македонија“ бр.46/10) |

| | |
|---------------------------------------------------|----------------------------------------------------------------|
| Switzerland - Occupational Exposure Limits | |
| Local name | Azide de sodium / Natriumazid |
| MAK (OEL TWA) | 0,2 mg/m ³ (also see Hydrazoic acid-inhalable dust) |
| KZGW (OEL STEL) | 0,4 mg/m ³ (inhalable dust) |
| Remark | OSHA |
| Regulatory reference | www.suva.ch, 01.01.2024 |

| | |
|---------------------------------------------------|-------------------------------------------------------------------------------------------|
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Sodium azide |
| ACGIH OEL C | 0,29 mg/m ³ |
| | 0,11 ppm |
| Remark (ACGIH) | TLV® Basis: Card impair; lung dam. Notations: A4 (Not classifiable as a Human Carcinogen) |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen |
| Regulatory reference | ACGIH 2024 |

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| | |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| zinc chloride (7646-85-7) | |
| Belgium - Occupational Exposure Limits | |
| Local name | Zinc (chlorure de) (fumées) # Zinkchloride (rook) |
| OEL TWA | 1 mg/m ³ (fume) |
| OEL STEL | 2 mg/m ³ (fume) |
| Regulatory reference | Koninklijk besluit/Arrêté royal 16/11/2023 |
| Croatia - Occupational Exposure Limits | |
| Local name | Cinkov klorid, dim |
| GVI (OEL TWA) | 1 mg/m ³ (fume) |
| KGVI (OEL STEL) | 2 mg/m ³ (fume) |
| Regulatory reference | Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 148/2023) |
| Czech Republic - Occupational Exposure Limits | |
| Local name | Chlorid zinečnatý |
| PEL (OEL TWA) | 1 mg/m ³ |
| NPK-P (OEL C) | 2 mg/m ³ |
| Remark | I - dráždí sliznice (oči, dýchací cesty) resp. kůže. |
| Regulatory reference | Nařízení vlády č. 361/2007 Sb. (Předpis 330/2023 Sb.) |
| Denmark - Occupational Exposure Limits | |
| Local name | Zinkchlorid og zinkchloridrøg |
| OEL TWA | 0,5 mg/m ³ 0,5 mg/m ³ (fume) |
| OEL STEL | 1 mg/m ³ 1 mg/m ³ (fume) |
| Regulatory reference | BEK nr 202 af 21/02/2023 |
| Estonia - Occupational Exposure Limits | |
| Local name | Tsinkkloriid |
| OEL TWA | 1 mg/m ³ (respirable dust) |
| Remark | 1 (Peentolm koosneb alla 2,5-mikromeetrise läbimõõduga osakestest, mis võivad jõuda koos sissehingatava õhuga kopsu alveoolidesse (respireeritav fraktsioon)) |
| Regulatory reference | Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 21.12.2022, 3) |
| Finland - Occupational Exposure Limits | |
| Local name | Sinkkikloridi, huurut |
| HTP (OEL TWA) | 1 mg/m ³ (fume) |
| Regulatory reference | HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö) |

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| | |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| zinc chloride (7646-85-7) | |
| France - Occupational Exposure Limits | |
| Local name | Zinc (chlorure de, fumées) (Chlorure de zinc) |
| VME (OEL TWA) | 1 mg/m ³ (fume) |
| Remark | Valeurs recommandées/admises |
| Regulatory reference | Circulaire du Ministère du travail (réf.: INRS ED 6443, 2022; Outil65) |
| Greece - Occupational Exposure Limits | |
| Local name | Ψευδάργυρος χλωριούχος (καπνοί) |
| OEL TWA | 1 mg/m ³ (fume) |
| OEL STEL | 2 mg/m ³ (fume) |
| Regulatory reference | Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους |
| Hungary - Occupational Exposure Limits | |
| Local name | CINK-KLORID (Zn-re számítva) |
| AK (OEL TWA) | 1 mg/m ³ (respirable fraction) |
| Remark | i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármat); N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok) |
| Regulatory reference | 5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről |
| Ireland - Occupational Exposure Limits | |
| Local name | Zinc chloride, fume |
| OEL TWA | 1 mg/m ³ (fume) |
| OEL STEL | 2 mg/m ³ (fume) |
| Regulatory reference | Chemical Agents Code of Practice 2021 |
| Lithuania - Occupational Exposure Limits | |
| Local name | Cinko chloridas |
| IPRV (OEL TWA) | 1 mg/m ³ (respirable fraction) |
| Remark | O (medžiaga į organizmą gali prasiskverbti pro nepažeistą odą) |
| OEL chemical category | Skin notation respirable fraction |
| Regulatory reference | LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12) |
| Poland - Occupational Exposure Limits | |
| Local name | Dichlorek cynku (chlorek cynku) |
| NDS (OEL TWA) | 1 mg/m ³ (inhalable fraction) |
| NDSch (OEL STEL) | 2 mg/m ³ (inhalable fraction) |
| Remark | Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. |
| Regulatory reference | Dz. U. 2018 poz. 1286 wraz z późn. zm. |

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| | |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| zinc chloride (7646-85-7) | |
| Portugal - Occupational Exposure Limits | |
| Local name | Cloreto de zinco, fumos |
| OEL TWA | 1 mg/m ³ (fume) |
| OEL STEL | 2 mg/m ³ (fume) |
| Regulatory reference | Norma Portuguesa NP 1796:2014 |
| Spain - Occupational Exposure Limits | |
| Local name | Cloruro de cinc |
| VLA-ED (OEL TWA) | 1 mg/m ³ (fume) |
| VLA-EC (OEL STEL) | 2 mg/m ³ (fume) |
| Regulatory reference | Límites de Exposición Profesional para Agentes Químicos en España 2024. INSHT |
| Sweden - Occupational Exposure Limits | |
| Local name | Zinkklorid |
| NGV (OEL TWA) | 1 mg/m ³ (respirable fraction) |
| Remark | 3 (Den respirabla fraktionen är de inhalerbara partiklar som når längst ner i luftvägarna, till alveolerna i lungorna) |
| Regulatory reference | Hygieniska gränsvärden (AFS 2018:1) |
| United Kingdom - Occupational Exposure Limits | |
| Local name | Zinc chloride |
| WEL TWA (OEL TWA) | 1 mg/m ³ (fume) |
| WEL STEL (OEL STEL) | 2 mg/m ³ (fume) |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |
| Iceland - Occupational Exposure Limits | |
| Local name | Sínkkloríð og sínkkloríðreykur, sem Zn |
| OEL TWA | 0,5 mg/m ³ |
| Regulatory reference | Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009) |
| Norway - Occupational Exposure Limits | |
| Local name | Sínkklorid |
| Grenseverdi (OEL TWA) | 1 mg/m ³ |
| Korttidsverdi (OEL STEL) | 3 mg/m ³ (value calculated) |
| Regulatory reference | FOR-2023-12-18-2278 |
| Switzerland - Occupational Exposure Limits | |
| Local name | Chlorure de zinc (fumée) / Zinkchlorid (Rauch) |
| MAK (OEL TWA) | 1 mg/m ³ (respirable dust, smoke) |
| Remark | OSHA |
| Regulatory reference | www.suva.ch, 01.01.2024 |

| | | |
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| | |
|---------------------------------------------------|----------------------------|
| zinc chloride (7646-85-7) | |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Zinc chloride fume |
| ACGIH OEL TWA | 1 mg/m ³ (fume) |
| ACGIH OEL STEL | 2 mg/m ³ (fume) |
| Remark (ACGIH) | TLV® Basis: LRT & URT irr |
| Regulatory reference | ACGIH 2024 |

8.1.2. Recommended monitoring procedures

| | |
|---------------------------|-------------------------------------------------------------|
| Monitoring methods | |
| Monitoring methods | Concentration measurement in air. Personal air monitoring . |

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Additional information : Recommended monitoring procedures :. Personal air monitoring. Room air monitoring

8.1.5. Control banding

No additional information available

8.2. Exposure controls

| | |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Engineering measure(s) | : Provide adequate ventilation. Organisational measures to prevent/limit releases, dispersion and exposure. See Section 7 for information on safe handling. Apply measures to prevent dust explosions. Ensure equipment is adequately earthed. |
| Personal protective equipment | : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. |
| Hand protection | : Wear chemically resistant gloves (tested to EN374) . Suitable material: Not determined. Thickness : Not determined. Breakthrough time : Not determined. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. |
| Eye protection | : Use suitable eye protection (EN166): Safety glasses with side shields |
| Body protection | : Wear suitable protective clothing. Lab coat |
| Respiratory protection | : Not required for normal conditions of use. Provide appropriate exhaust ventilation at places where dust is formed. Effective dust mask (EN 149). When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. full face mask (DIN EN 136). Half-face mask (DIN EN 140). In case of dust formation use respirator with filter: P1 (EN 143) |
| Thermal hazard protection | : Not required for normal conditions of use. Use dedicated equipment. |
| Environmental exposure controls | : Avoid release to the environment. Comply with applicable Community environmental protection legislation. |

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-------------------------------------------------|--------------------------|
| Physical state | : Solid |
| Colour | : Light beige. |
| Appearance | : Powder. (lyophilised). |
| Odour | : odourless. |
| Odour threshold | : Not applicable |
| Melting / freezing point | : Not applicable |
| Freezing point | : Not applicable |
| Initial boiling point and boiling range | : Not applicable |
| Flammability | : Not applicable |
| Explosive properties | : Not applicable. |
| Oxidising properties | : Not applicable. |
| Lower explosion limit | : Not applicable |
| Upper explosion limit | : Not applicable |
| Flash point | : Not applicable |
| Auto-ignition temperature | : Not applicable |
| Decomposition temperature | : Not determined |
| pH | : Not applicable |
| pH solution | : Not available |
| Kinematic viscosity | : Not applicable |
| Dynamic viscosity | : Not applicable |
| Solubility | : Water: Not determined |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Partition coefficient n-octanol/water | : Not applicable |
| Vapour pressure | : Not applicable |
| Vapour pressure at 50°C | : Not available |
| Density | : Not available |
| Relative density | : Not determined |
| Vapour density | : Not applicable |
| Particle size | : Not available |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

| | |
|--------------------------------------------|---------------------|
| Relative evaporation rate (butylacetate=1) | : Not applicable |
| Additional information | : No data available |

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at ambient temperature and under normal conditions of use. Reference to other sections: 10.4 & 10.5.

| | | |
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10.2. Chemical stability

Stable under recommended storage conditions. (2-8°C). Observe the expiry date.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from moisture. See Section 7 for information on safe handling.

10.5. Incompatible materials

Strong oxidizing agents. See Section 7 for information on safe handling.

10.6. Hazardous decomposition products

Reference to other sections 5.2.

SECTION 11: Toxicological information

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

| | |
|-----------------------------|-------------------------------------------------------------------------------------|
| Acute toxicity (oral) | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (dermal) | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation) | : Not classified (Based on available data, the classification criteria are not met) |

| sodium azide (26628-22-8) | |
|----------------------------------|-----------------------------|
| LD50/oral/rat | 45 mg/kg |
| LD50/dermal/rabbit | 20 mg/kg (Source: NLM_HSDB) |
| LC50/inhalation/4h/rat | 0,054 – 0,52 mg/l/4h |

| Sodium salicylate (54-21-7) | |
|------------------------------------|---------------------------------|
| LD50/oral/rat | 930 mg/kg (Source: NLM_CIP) |
| LD50/dermal/rat | > 2000 mg/kg (Source: ECHA_API) |

| zinc chloride (7646-85-7) | |
|----------------------------------|-------------------------------------------------------------------|
| LD50/oral/rat | 350 mg/kg |
| LC50/inhalation/4h/rat | ≤ 1975 mg/m ³ (Exposure time: 10 min Source: ECHA_API) |

| | |
|---------------------------|-----------------------------------------------------------------------------------------------------------|
| Skin corrosion/irritation | : Not classified (Based on available data, the classification criteria are not met) pH: Not applicable |
|---------------------------|-----------------------------------------------------------------------------------------------------------|

| zinc chloride (7646-85-7) | |
|----------------------------------|-----------------------------------|
| pH | 4 (conc: 10 % (aqueous solution)) |

| | |
|-------------------------------|-----------------------------------------------------------------------------------------------------------|
| Serious eye damage/irritation | : Not classified (Based on available data, the classification criteria are not met) pH: Not applicable |
|-------------------------------|-----------------------------------------------------------------------------------------------------------|

| | | |
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| | |
|----------------------------------|-----------------------------------|
| zinc chloride (7646-85-7) | |
| pH | 4 (conc: 10 % (aqueous solution)) |

| | |
|-----------------------------------|-------------------------------------------------------------------------------------|
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met) |
| Germ cell mutagenicity | : Not classified (Based on available data, the classification criteria are not met) |
| Carcinogenicity | : Not classified (Based on available data, the classification criteria are not met) |
| Reproductive toxicity | : Not classified (Based on available data, the classification criteria are not met) |
| STOT-single exposure | : Not classified (Based on available data, the classification criteria are not met) |
| STOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met) |
| Aspiration hazard | : Not classified (Based on available data, the classification criteria are not met) |

| | |
|-------------------------|----------------|
| AIA-PACK Serie 9 | |
| Kinematic viscosity | Not applicable |

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

| | |
|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Adverse health effects caused by endocrine disrupting properties | : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % |
|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

11.2.2. Other information

| | |
|-------------------|-----------------------------------------------------------------------------------------------------------------------|
| Other information | : Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4 |
|-------------------|-----------------------------------------------------------------------------------------------------------------------|

SECTION 12: Ecological information

12.1. Toxicity

| | |
|-----------------------------------------------------------|------------------------------------------------------|
| Environmental properties | : Harmful to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Harmful to aquatic life with long lasting effects. |

| | |
|----------------------------------|---------------------------------------------------------------|
| sodium azide (26628-22-8) | |
| LC50 - Fish [1] | 0,8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) |
| LC50 - Fish [2] | 0,7 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus) |

| | | |
|--|--------------------------|-------------------------|
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| Sodium salicylate (54-21-7) | |
|------------------------------------|--------------------------------------------------------------------------------------------------|
| LC50 - Fish [1] | 1270 – 1470 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA) |

12.2. Persistence and degradability

| AIA-PACK Serie 9 | |
|-------------------------------|--------------------------------------|
| Persistence and degradability | No additional information available. |

12.3. Bioaccumulative potential

| AIA-PACK Serie 9 | |
|---------------------------------------|--------------------------------------|
| Partition coefficient n-octanol/water | Not applicable |
| Bioaccumulative potential | No additional information available. |

| Sodium salicylate (54-21-7) | |
|---------------------------------------|-------------------|
| Partition coefficient n-octanol/water | -1,259 (at 25 °C) |

| zinc chloride (7646-85-7) | |
|----------------------------------|-----------------------|
| BCF - Fish [1] | (16000 dimensionless) |

12.4. Mobility in soil

| AIA-PACK Serie 9 | |
|-------------------------|-------------------------------------|
| Mobility in soil | No additional information available |
| Ecology - soil | No data available. |

12.5. Results of PBT and vPvB assessment

| AIA-PACK Serie 9 | |
|---------------------------|--------------------------------------------------------------------------------------------------|
| Results of PBT assessment | Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII |

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

12.7. Other adverse effects

Other adverse effects : No data available.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product/Packaging disposal recommendations | : Handle with care. See Section 7 for information on safe handling . Do not allow to enter into surface water or drains. Dispose of contaminated materials in accordance with current regulations. |
| Additional information | : Delivery to an approved waste disposal company. |
| European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) | : MS-N13.00030010 - Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities |

SECTION 14: Transport information

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

| ADR | IMDG | IATA | ADN | RID |
|-----------------------------------------|----------------|----------------|----------------|----------------|
| 14.1. UN number or ID number | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shipping name | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available | | | | |

14.6. Special precautions for user

Special precautions for user : No data available

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Code: IBC : No data available.

| | | |
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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

Detergent Regulation (648/2004/EC): Labelling of contents

15.1.2. National regulations

| | | |
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France

| Installations classées | | | |
|------------------------|----------------------------|-------------|-------|
| No ICPE | Désignation de la rubrique | Code Régime | Rayon |
| na | Not Applicable | na | na |

No ICPE

Germany

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).

Hazardous Incident Ordinance (12. BImSchV) : Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

Technical Instructions on Air Quality Control (TA Luft) : Total dust.

Netherlands

Waterbezwaarlijkheid : A (3) - hazardous for aquatic organisms, may have longterm hazardous effects in aquatic environment

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Denmark

Danish National Regulations : Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

Not applicable

SECTION 16: Other information

Indication of changes:

| | | | |
|-----|--------------------------------------------------|----------|--|
| 1.3 | Details of the supplier of the safety data sheet | Modified | |
|-----|--------------------------------------------------|----------|--|

Abbreviations and acronyms:

| | |
|--|----------------------------------------------------------------------------------------------------------------------|
| | ABM = Algemene beoordelingsmethodiek |
| | ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin |
| | ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route |
| | CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC |
| | IATA = International Air Transport Association |
| | IMDG = International Maritime Dangerous Goods Code |
| | LEL = Lower Explosive Limit/Lower Explosion Limit |
| | UEL = Upper Explosion Limit/Upper Explosive Limit |
| | REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals |
| | BTT = Breakthrough time (maximum wearing time) |
| | DMEL = Derived Minimal Effect level |
| | DNEL = Derived No Effect Level |
| | EC50 = Median Effective Concentration |
| | EL50 = Median effective level |

| | | |
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| | |
|--|----------------------------------------------------------------------------------------------|
| | ErC50 = EC50 in terms of reduction of growth rate |
| | ErL50 = EL50 in terms of reduction of growth rate |
| | EWC = European waste catalogue |
| | LC50 = Median lethal concentration |
| | LD50 = Median lethal dose |
| | LL50 = Median lethal level |
| | NA = Not applicable |
| | NOEC = No observed effect concentration |
| | NOEL: no-observed-effect level |
| | NOELR = No observed effect loading rate |
| | NOAEC = No observed adverse effect concentration |
| | NOAEL = No observed adverse effect level |
| | N.O.S. = Not Otherwise Specified |
| | OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs) |
| | PNEC = Predicted No Effect Concentration |
| | Quantitative structure-activity relationship (QSAR) |
| | STOT = Specific Target Organ Toxicity |
| | TWA = time weighted average |
| | VOC = Volatile organic compounds |
| | WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act) |

Sources of key data used to compile the datasheet : Additional information : Manufacturer/Supplier. ECHA (European Chemicals Agency), LOLI.

Training advice : Training staff on good practice. Manipulations are to be done only by qualified and authorised persons.

Other information : Classification - Assessment method: CLP Calculation method (Article 9).

Full text of H- and EUH-statements:

| | |
|---------------------|--------------------------------------------------------------------------------------------|
| Acute Tox. 2 (Oral) | Acute toxicity (oral), Category 2 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| EUH032 | Contact with acids liberates very toxic gas. |
| H300 | Fatal if swallowed. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H335 | May cause respiratory irritation. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

| | | |
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ANNEX: AIA-PACK Serie 9, Tosoh-31

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EN

| Product code | Designation |
|---------------------|---------------------|
| 0025240 | ST AIA-PACK PROGIII |