# tri-SODIUM ORTHOPHOSPHATE DODECAHYDRATE AR

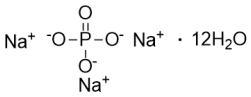
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□□ (EU) 2020/878□ □□ □□□ REACH □□ (EC) 1907/2006□ □□
SDS Reference Number: 05960
□□ □□□□: 6/11/2019 □□ □□□□: 7/2/2025 □□ □□: 12/14/2022 □□: 2.0

## □□ 1: □□□□□ □□□ □□ □□

### 1.1. □□□□

□□ □□ : □□
□□□ : tri-SODIUM ORTHOPHOSPHATE DODECAHYDRATE AR
EC □□ : 231-509-8
CAS □□ : 10101-89-0
□□ □□ : 05960
□□□ : Na3O4P·12H2O
□□ □□ :



□□□ : Sodium phosphate tribasic dodecahydrate, Trisodium phosphate dodecahydrate

### 1.2. □□□□ □□ □□□□ □□ □□ □□ □□

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□□/□□□ □□ □□ : Industrial
For professional use only
□□□□/□□□□ □□ : Laboratory chemicals
□□□ □□

### 1.3. □□□□□□□□ □□□ □□

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info@lobachemie.com, www.lobachemie.com

### 1.4. □□□□□□

□□ □□ □□ : + 91 22 6663 6663 (9:00am - 6:00 pm)

## □□ 2: □□□·□□□

### 2.1. □□□·□□□ □□

**Regulation (EC) No.1272/2008 [CLP]□ □□ □□**

□□ □□□/□□ □□□, □□ 2 H315
□□ □ □□□/□ □□□, □□ 2 H319
□□□□□□ □□ - 1□ □□, □□ 3, □□□□ □□ H335
□□(H) □□ □ EUH □□ □□: 16□ □□.

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### 2.2. □□□□□□□ □□□ □□□□ □□

**□□ (EC) No. 1272/2008□ □□ □□ □□[CLP]**

□□ □□ □□□□(CLP) :



GHS07

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|---|---|---|
| □□□ (CLP) | : | □□ |
| □□·□□ □□ (CLP) | : | H315 - □□□ □□□ □□□.<br>H319 - □□ □□ □□□ □□□.<br>H335 - □□□ □□□ □□□ □ □□. |
| □□ □□ □□(CLP) | : | P261 - □□·□·□□·□□□·□□·□□□□ □ □□□ □□□□.<br>P264 - □□ □□□ □, □□ □ □□ □(□) □□□ □□□□.<br>P271 - □□ □□ □□□ □ □□ □□□□ □□□□□.<br>P280 - □□□□, □□□, □□□, □□□□□ □(□) □□□□□.<br>P302+P352 - □□□ □□□ □□□ □ □ □□□□.<br>P305+P351+P338 - □□ □□□□: □ □□ □□ □□□□ □□□□. □□□□ □□□ □□□ □□□□□. □□ □ □□□. |

### 2.3. □□ □□

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## □□ 3: □□□□□ □□ □ □□□

### 3.1. □□□□

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|---|---|---|
| tri-SODIUM ORTHOPHOSPHATE DODECAHYDRATE | CAS □□: 10101-89-0<br>EC □□: 231-509-8 | 100 |

## □□ 4: □□□□□□

### 4.1. □□□□ □□

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| □□ □□ □□ | : | Call a physician immediately. |
| □□□□ □ | : | □□□ □□□ □□ □□□ □□□ □□□□ □□ □□□ □□□ □□□□. □□□ □□□ □□ □□□ □□□ □□□ □ □□ □□□ □□□ □□□□. □□ □□□□/□□□ □□□ □□□□. |
| □□□ □□□□ □ | : | □□□ □□ □□□ □□ □□□□. □□□ □□ □□□□[□□ □□□□□]. □□ □□□□/□□□ □□□ □□□□. Call a physician immediately. |
| □□ □□□□ □ | : | □ □□ □□ □□□□ □□□□. □□□□ □□□□□□ □□□□□. □□ □□□□. □□ □□□□/□□□ □□□ □□□□. Call a physician immediately. |
| □□□ □ | : | □□ □□□□□. □□□ □□ □□□. □□ □□□□/□□□ □□□ □□□□. Do not induce vomiting. Call a physician immediately. |

### 4.2. □□ □ □□□ □□ □□□ □□ □ □□

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|---|---|---|
| □□/□□ | : | □□□ □□ □□□ □□ □□□ □□□. |
| □□ □□ □ □□/□□ | : | Burns. |
| □ □□ □ □□/□□ | : | Serious damage to eyes. |
| □□ □ □□/□□ | : | Burns. |

### 4.3. □□□□ □□ □ □□ □□ □□ □□ □□

Treat symptomatically.

## □□ 5: □□·□□□ □□□□

### 5.1. □□□ □□□

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| □□□ □□□ | : | dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Water spray. Dry powder. Foam. |
| □□□□ □□□ | : | Do not use a heavy water stream. |

물질안전보건자료
규정 (EU) 2020/878에 의해 수정된 REACH 규정 (EC) 1907/2006에 따름

5.2. 화학물질로부터 생기는 특정 유해성

화재 시 위험한 분해성 물질 : Toxic fumes may be released.

5.3. 소방관의 화재진압 시 주의사항

화재 진압 중 보호 : Do not attempt to take action without suitable protective equipment. 자급식 호흡보호구. Complete protective clothing.

섹션 6: 누출사고시 대처방법

6.1. 인체를 보호하기 위해 필요한 조치사항 및 보호구

비응급 대응 요원

응급 조치 : Ventilate spillage area. Evacuate unnecessary personnel. 피부 및 눈과의 접촉을 피하시오. 분진/흄/가스/미 스트/증기/스프레이 를(을) 흡입하지 마시오.

응급 대응 요원

보호 장비 : Do not attempt to take action without suitable protective equipment. 적절한 개인 보호구를 착용하시오. 보 다 자세한 정보는 섹션 8: "노출방지 및 개인보호구"를 참조하시오.

응급 조치 : Stop release.

6.2. 환경을 보호하기 위해 필요한 조치사항

환경으로 배출하지 마시오.

6.3. 정화 또는 제거 방법

세척 방법 : Mechanically recover the product. Clear up rapidly by scoop or vacuum.
그 밖의 참고사항 : Dispose of materials or solid residues at an authorized site.

6.4. 기타 항목 참조

For further information refer to section 13.

섹션 7: 취급 및 저장방법

7.1. 안전취급요령

안전취급요령 : Ensure good ventilation of the work station. 분진/흄/가스/미스트/증기/스프레이 를(을) 흡입하지 마시오. 피부 및 눈과의 접촉을 피하시오. 개인 보호구를 착용하시오.

위생 조치 : 취급 후에는 취급 부위 를(을) 철저히 씻으시오. 다시 사용 전 오염된 의류를 세척하시오. 이 제품을 사용할 때에는 먹 거나, 마시거나 흡연하지 마시오. Always wash hands after handling the product.

7.2. 피해야할 조건을 포함한 안전한 저장 방법

기술적 조치 : Comply with applicable regulations.
보관 조건 : Store in original container. 용기를 단단히 밀폐하시오. 건조한 장소에 보관하시오. 습기를 방지하시오. 잠금장치 를 하여 저장하시오. 환기가 잘 되는 곳에 보관하시오. 저온으로 유지하시오.

7.3. 특정 최종 사용

자료 없음

섹션 8: 노출방지 및 개인보호구

8.1. 제어 매개 변수

자료 없음

## 8.2. □□□□

### □□□ □□□ □□

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Ensure good ventilation of the work station.

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Chemical goggles or safety glasses

**Skin protection**

□□ □□:

Wear a mask

□ □□:

Protective gloves

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□□□ □□:

Wear appropriate mask

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## □□ 9: □□□□□ □□

### 9.1. □□□□ □□□□□ □□□ □□ □□

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|---|---|---|
| □□□ □□ | : | □□ |
| □□ | : | White. |
| □□ | : | Crystalline powder. |
| □□□ | : | 380.12 g/mol |
| □□ | : | Odourless. |
| □□ □□ | : | □□□□ |
| □□□ | : | 75 °C |
| □□□ | : | □□□□ |
| □□ □□□□ □□□ □□ | : | □□□□ |
| □□□ | : | □□□ |
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| □□□ | : | □□□□ |
| □□□□ □□ | : | □□□□ |
| □□ □□ | : | > 75 °C |
| pH | : | 11.8 – 12 |
| pH □□□ □□ | : | 1 % |
| □□(□□□) | : | □□□□ |
| □□□ | : | □: 190 g/l at 20°C - Soluble |
| Partition coefficient n-octanol/water (Log Kow) | : | □□□□ |
| □□□ | : | □□□□ |
| 50°C□□□ □□□ | : | □□□□ |
| □□ | : | 1.62 g/cm³ |
| □□ | : | □□□□ |
| 20°C□□□ □□ □□ □□ | : | □□□□ |
| Particle size | : | □□□□ |

### 9.2. □ □□ □□□□

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□□ □□ : 950 kg/m³ ca.

## □□ 10: □□□ □ □□□

### 10.1. □□□

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. □□□ □□□

Stable under normal conditions.

### 10.3. □□ □□□ □□□

No dangerous reactions known under normal conditions of use.

### 10.4. □□□ □ □□

□□□□. Air contact. Moisture.

### 10.5. □□□ □ □□

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### 10.6. □□□ □□□□ □□□□

Thermal decomposition generates : Corrosive vapours.

## □□ 11: □□□ □□ □□

### 11.1. □□ (EC) No 1272/2008□ □□□, □□□ □□□ □□ □□

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| □□ □□ (□□) | : □□□□ □□ |
| □□ □□ (□□) | : □□□□ □□ |
| □□ □□□ □□ □□□ | : □□□ □□□ □□□. pH: 11.8 – 12 |
| □□ □ □□ □□ □□□ | : □□ □□ □□□ □□□. pH: 11.8 – 12 |
| □□□ □□ □□ □□□ | : □□□□ □□ |
| □□□□ □□□□ | : □□□□ □□ |
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| □□ □□□□ □□ (1□ □□) | : □□□ □□□ □□□ □ □□. |
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| tri-SODIUM ORTHOPHOSPHATE DODECAHYDRATE AR (10101-89-0) | |
|---|---|
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### 11.2. □□ □□ □□

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## □□ 12: □□□ □□□ □□

### 12.1. □□

□□□ - □□ : Before neutralisation, the product may represent a danger to aquatic organisms.

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### 12.2. □□□ □ □□□

| tri-SODIUM ORTHOPHOSPHATE DODECAHYDRATE AR (10101-89-0) | |
|---|---|
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### 12.3. □□ □□□

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### 12.4. □□ □□□

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### 12.5. PBT □ vPvB □□ □□

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### 12.6. □□□ □□ □□

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### 12.7. □□ □□ □□

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## □□ 13: □□□ □□□□

### 13.1. □□□ □□□

□□□ □□□ : Dispose of contents/container in accordance with licensed collector's sorting instructions.
□□/□□ □□ □□□□ : □□ □□ □□□ □□□□ □□ □□□. (□□□ □ □□□ □□□□, □ □□□ □□□ □□□□ □□ □□) □ □□ □□ □□□ □□□□□.

## □□ 14: □□□ □□□ □□

ADR / IMDG / IATA / ADN / RID□ □□

### 14.1. UN □□ □□ ID □□

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### 14.2. UN □□ □□□

□□ □□□ (ADR) : Not regulated
□□ □□□ (IMDG) : Not regulated
□□ □□□ (IATA) : Not regulated
□□ □□□ (ADN) : Not regulated
□□ □□□ (RID) : Not regulated

### 14.3. □□□□□ □□□ □□

**ADR**

□□□□□ □□□ □□ (ADR) : Not regulated

**IMDG**

□□□□□ □□□ □□ (IMDG) : Not regulated

**IATA**

□□□□□ □□□ □□ (IATA) : Not regulated

**ADN**

□□□□□ □□□ □□ (ADN) : Not regulated

**RID**

□□□□□ □□□ □□ (RID) : Not regulated

## 14.4. □□□□

□□ □□ (ADR) : Not regulated
□□ □□(IMDG) : Not regulated
□□ □□ (IATA) : Not regulated
□□ □□(ADN) : Not regulated
□□ □□(RID) : Not regulated

## 14.5. □□ □□□

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## 14.6. □□□□ □□ □□ □□□□

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Not regulated

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Not regulated

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Not regulated

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Not regulated

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Not regulated

## 14.7. □□□□□□(IMO)□ □□ □□ □□ □□

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# □□ 15: □□ □□□□

## 15.1. □□, □□ □ □□□ □□□□ □□□□ □□ □□□□ □□ □□ □□/□□

**EU □□**

**REACH □□□ XVII (□□ □□)**

REACH □□□ XVII□ □□□□ □□

**REACH □□□ XIV (□□ □□)**

REACH □□□ XIV (□□ □□)□ □□□□ □□

**REACH □□ □□ □□ (SVHC)**

REACH □□ □□ □□□ □□□□ □□

**PIC □□ (□□□□□□)**

PIC □□□ □□□□ □□ (□□ EU 649/2012)

**POP □□ (□□□ □□ □□□□)**

POP □□□ □□□□ □□ (□□ EU 2019/1021)

**Ozone Regulation (2024/590)**

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

**□□□□ □□(428/2009)**

Not listed on the COUNCIL REGULATION (EC) of dual-use items.

**□□ □□□□ □□ (2019/1148)**

Not listed on the Explosives Precursors list (EU)

### □□ □□□□ □□ (273/2004)

Not listed on the Drug Precursors list (EU)

### □□ □□

### □□

WGK : WGK 1, □□ □□ □□ □□ (Classification according to AwSV; ID □□ 10740).

### □□□□

SZW-lijst van kankerverwekkende stoffen : □□□ □□□□ □□□□□.
SZW-lijst van mutagene stoffen : □□□ □□□□ □□□□□.
SZW-lijst van reprotoxische stoffen – Borstvoeding : □□□ □□□□ □□□□□.
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : □□□ □□□□ □□□□□.
SZW-lijst van reprotoxische stoffen – Ontwikkeling : □□□ □□□□ □□□□□.

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□□□ □□ □□ : Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).
Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).
The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).
Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).
Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).
Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).
The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)
Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).
Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).
ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891)

## 15.2. □□ □□ □□□ □□

No chemical safety assessment has been carried out

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| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | □□ □□ □ |
| BOD | Biochemical oxygen demand (BOD) |
| COD | □□□ □□ □□□ |

| □□ □ □□□□: | |
|---|---|
| DMEL | Derived Minimal Effect level |
| DNEL | □□ □□□ □□ |
| EC □□ | □□ □□□ □□ |
| EC50 | Median effective concentration |
| EN | □□ □□ |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | □□□ □□ □□ |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | □□ □□□ □□ |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | □□□□□□□□ |
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| COV | Volatile Organic Compounds |
| CAS □□ | □□□□ □□ □□ □□(CAS) |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | □□□ □□□□ |

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| H315 | □□□ □□□ □□□. |
| H319 | □□ □□ □□□ □□□. |
| H335 | □□□ □□□ □□□ □ □□. |

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