

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SDS_Ind.Mix_013

Alipak 333C

| SECTION 1: Identification | of the substance/mixture and of the company/undertaking |
|--------------------------------------|--|
| 1.1. Product identifier | |
| Product form | : Mixture |
| Trade name | : Alipak 333C |
| SDS code | : SDS_Ind.Mix_013 |
| Internal reference no. | : 000412 |
| 1.2. Relevant identified uses of the | ne substance or mixture and uses advised against |
| Relevant identified uses | : Industrial and professional. Perform risk assessment prior to use. |
| | Food applications. |
| | Contact supplier for more information on uses |

| | Contact supplier for more information on uses. |
|--|--|
| Uses advised against | : Consumer use. |
| 1.3. Details of the supplier of the sa | ifety data sheet |
| Company identification | : Sapio Produzione Idrogeno Ossigeno Srl |
| | Via S. Pellico, 48 20900 Monza - ITALIA |
| | +39 039 83981 +39 039 836068 |
| | http://www.sapio.it/ |
| | sds@sapio.it |
| 1.4. Emergency telephone number | |
| Emergency telephone number | : +39 0295705444 (24/7) |

| SECTION 2: Hazards ide | ntification | | | |
|--|---|---|---|--|
| 2.1. Classification of the substance or mixture | | | | |
| Classification according to Regulat | Classification according to Regulation (EC) No. 1272/2008 [CLP] | | | |
| Physical hazards | Gases under pressur | e: Compressed gas | H280 | |
| 2.2. Label elements | | | | |
| Labelling according to Regulation (| EC) No. 1272/2008 [C | LP] | | |
| Hazard pictograms (CLP) | : | GHS04 | | |
| Signal word (CLP) | | Warning | | |
| Hazard statements (CLP) Precautionary statements (CLP) | | H280 - Contains gas un P403 - Store in a well-v | under pressure; may explode if heated. -ventilated place. | |
| 2.3. Other hazards | | | | |
| Other hazards not contributing to the o | | Asphyxiant in high conc In high concentrations (| ncentrations. CO2 cause rapid circulatory insufficiency. Symptoms are headache, nausea and | |

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--------------------------------------|---|---------|--|
| Nitrogen | CAS-No.: 7727-37-9 EC-No.: 231-783-9 EC Index-No.: Registration-No.: *1 | 85 | Press. Gas (Comp.), H280 |
| Carbon dioxide | CAS-No.: 124-38-9 EC-No.: 204-696-9 EC Index-No.: Registration-No.: *1 | 13 | Press. Gas (Liq.), H280 |
| Oxygen | CAS-No.: 7782-44-7 EC-No.: 231-956-9 EC Index-No.: 008-001-00-8 Registration-No.: *1 | 2 | Ox. Gas 1, H270 Press. Gas (Comp.), H280 |
| nio Produzione Idrogeno Ossigeno Srl | EN (English) | Interne | reference no : 000412 |

vomiting, which may lead to unconsciousness.



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Full text of H-statements: see section 16

Contains no other components or impurities which will influence the classification of the product.

*1: Listed in Annex IV / V REACH, exempted from registration.

*2: Registration deadline not expired.

*3: Registration not required: Substance manufactured or imported < 1t/y.

SECTION 4: First aid measures 4.1. Description of first aid measures - Inhalation : Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing stopped. - Skin contact : Adverse effects not expected from this product. - Eye contact : Adverse effects not expected from this product. - Ingestion : Ingestion is not considered a potential route of exposure. 4.2. Most important symptoms and effects, both acute and delayed

In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation.

Refer to section 11.

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

None

| SECTION 5: Firefighting measure | 95 |
|--|---|
| 5.1. Extinguishing media | |
| - Suitable extinguishing media | : Water spray or fog. |
| - Unsuitable extinguishing media | : Do not use water jet to extinguish. |
| 5.2. Special hazards arising from the subs | stance or mixture |
| Specific hazards | : Exposure to fire may cause containers to rupture/explode. |
| Hazardous combustion products | : None. |
| 5.3. Advice for firefighters | |
| Specific methods | Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems. If possible, stop flow of product. Use water spray or fog to knock down fire fumes if possible. Move containers away from the fire area if this can be done without risk. |
| Special protective equipment for fire fighters | In confined space use self-contained breathing apparatus. Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters. |

| SECTION 6: Accidental release measures | | |
|--|--|--|
| 6.1. Personal precautions, protective equipment and emergency procedures | | |
| | Try to stop release. Evacuate area. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ensure adequate air ventilation. Act in accordance with local emergency plan. Stay upwind. Oxygen detectors should be used when asphyxiating gases may be released. | |
| 6.2. Environmental precautions | | |
| | Try to stop release. | |
| 6.3. Methods and material for containment an | d cleaning up | |
| | Ventilate area. | |
| 6.4. Reference to other sections | | |
| | See also sections 8 and 13. | |
| SECTION 7: Handling and storage | | |
| 7.1. Precautions for safe handling | | |



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| | | Allpak 3550 | |
|--|--|---|---|
| Safe use of the product Safe handling of the gas receptacle | Or Co Er Do Us Co Av Do Av | nly experienced and properly instructed onsider pressure relief device(s) in gas nsure the complete gas system was (or o not smoke while handling product. | is regularily) checked for leaks before use. hich is suitable for this product, its supply pressure and temperature s. |
| | W tra Le pla If t Ne Da Ke fro Cl Ne St | ansport receptacles. eave valve protection caps in place unti- aced in a container stand and is ready i user experiences any difficulty operatin ever attempt to repair or modify contain amaged valves should be reported imm eep container valve outlets clean and fr eplace valve outlet caps or plugs and co- om equipment. lose container valve after each use and ever attempt to transfer gases from one ever use direct flame or electrical heating o not remove or deface labels provided uck back of water into the container mu | t distances, use a cart (trolley, hand truck, etc.) designed to I the container has been secured against either a wall or bench or for use. Ig receptacle valve discontinue use and contact supplier. Her valves or safety relief devices. Hediately to the supplier. ree from contaminants particularly oil and water. Ontainer caps where supplied as soon as container is disconnected I when empty, even if still connected to equipment. e container to another. Ing devices to raise the pressure of a container. by the supplier for the identification of the receptacle contents. Is be prevented. |
| 7.2. Conditions for safe stora | | pen valve slowly to avoid pressure sho | СК. |
| | Co Co St Ke St | tored containers should be periodically eep container below 50°C in a well vent tore containers in location free from fire | tions likely to encourage corrosion. e in place. al position and properly secured to prevent them from falling over. checked for general condition and leakage. |
| | Ke | eep away from combustible materials. | |
| 7.3. Specific end use(s) | | | |
| | No | one. | |
| | | | |
| SECTION 8: Exposure of | ontrols/personal | protection | |
| 8.1. Control parameters | | | |
| Carbon dioxide (124-38-9) | - | | |
| OEL : Occupational Exposure Limi | ACGIH TWA (ppm) | | 5000 ppm |
| ACGIH | ACGIH STEL (ppm) | | 30000 ppm |
| | Remark (ACGIH) Regulatory reference | | Asphyxia ACGIH 2017 |
| | TWA (IT) OEL 8h [mg/m | n³] | 9000 mg/m ³ |
| Italy | TWA (IT) OEL 8h [ppm] | | 5000 ppm |
| | Regulatory reference | | Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i. |
| DNEL (Derived-No Effect Level) | : 1 | None available. | |
| PNEC (Predicted No-Effect Concent | ration) : | None available. | |
| 8.2. Exposure controls | | | |
| 8.2.1. Appropriate engineering | g controls | | |
| 8.2.2. Individual protection m | Sy Er Ox Co | rovide adequate general and local exha ystems under pressure should be regunsure exposure is below occupational exygen detectors should be used when a onsider the use of a work permit system al protective equipment | larily checked for leakages. exposure limits (where available). asphyxiating gases may be released. |
| • | Aus | risk assessment should be conducted a | and documented in each work area to assess the risks related to the that matches the relevant risk. The following recommendations |
| | PF | PE compliant to the recommended EN/ | ISO standards should be selected. |
| | - 14/ | | |

: Wear safety glasses with side shields.

Standard EN 166 - Personal eye-protection - specifications.



SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties

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| Skin protection | |
|--|---|
| - Hand protection | : Wear working gloves when handling gas containers. Standard EN 388 - Protective gloves against mechanical risk. |
| - Other | : Wear safety shoes while handling containers. |
| | Standard EN ISO 20345 - Personal protective equipment - Safety footwear. |
| Respiratory protection | : Gas filters may be used if all surrounding conditions e.g. type and concentration of the contaminant(s) and duration of use are known. |
| | Use gas filters with full face mask, where exposure limits may be exceeded for a short-term period, e.g. connecting or disconnecting containers. |
| | Gas filters do not protect against oxygen deficiency. |
| | Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen- deficient atmospheres. |
| | Standard EN 14387 - Gas filter(s), combined filter(s) and full face mask - EN 136. |
| | Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. |
| Thermal hazards | : None in addition to the above sections. |
| 8.2.3. Environmental exposure controls | |

None necessary.

| Appearance | |
|---|--|
| Physical state at 20°C / 101.3kPa | : Gas |
| • Colour | Mixture contains one or more component(s) which have the following colour(s): Colourless. |
| Odour | : Odourless. |
| Odour threshold | : Odour threshold is subjective and inadequate to warn of overexposure. |
| pH | : Not applicable for gases and gas mixtures. |
| Melting point / Freezing point | : Not applicable for gas mixtures. |
| Boiling point | : Not applicable for gas mixtures. |
| Flash point | : Not applicable for gases and gas mixtures. |
| Evaporation rate | : Not applicable for gases and gas mixtures. |
| Flammability (solid, gas) | : Non flammable. |
| Explosive limits | : Non flammable. |
| Vapour pressure [20°C] | : Not applicable. |
| Vapour pressure [50°C] | : Not applicable. |
| Vapour density | : Not applicable. |
| Relative density, gas (air=1) | : Lighter or similar to air. |

 Relative density, gas (air=1)
 : Lighter or similar to air.

 Partition coefficient n-octanol/water (Log Kow)
 : Not applicable for gas mixtures.

 Auto-ignition temperature
 : Non flammable.

 Decomposition temperature
 : Not applicable.

 Viscosity
 : No reliable data available.

| VISCOSILY | . No reliable data available. |
|------------------------|------------------------------------|
| Explosive properties | : Not applicable. |
| Oxidising properties | : Not applicable. |
| | |
| 9.2. Other information | |
| Molar mass | : Not applicable for gas mixtures. |
| | |
| Other data | : None. |

| SECTION 10: Stability and reactivity | | | |
|--|----------------------------------|--|-----|
| 10.1. Reactivity | | | |
| | No reactivity hazard other than | the effects described in sub-sections below. | |
| 10.2. Chemical stability | | | |
| | Stable under normal conditions | | |
| 10.3. Possibility of hazardous reactions | | | |
| | None. | | |
| 10.4. Conditions to avoid | | | |
| | Avoid moisture in installation s | vstems. | |
| 10.5. Incompatible materials | | | |
| | None. | | |
| | For additional information on c | ompatibility refer to ISO 11114. | |
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10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

| SECTION 11: Toxicological info | |
|---|--|
| 11.1. Information on toxicological effect | ts |
| Acute toxicity | : Toxicological effects not expected from this product if occupational exposure limit values are not exceeded. Unlike simple asphyxiants, carbon dioxide has the ability to cause death even when normal oxygen levels (20-21%) are maintained. 5% CO2 has been found to act synergistically to increase the toxicity of certain other gases (CO, NO2). CO2 has been shown to enhance the production of carboxy- or met-hemoglobin by these gases possibly due to carbon dioxide's stimulatory effects on the respiratory and circulatory systems. |
| | For more information, see EIGA Safety Info 24: "Carbon Dioxide, Physiological hazards" at www.eiga.eu. |
| Skin corrosion/irritation | : No known effects from this product. |
| Serious eye damage/irritation | : No known effects from this product. |
| Respiratory or skin sensitisation | : No known effects from this product. |
| Germ cell mutagenicity | : No known effects from this product. |
| Carcinogenicity | : No known effects from this product. |
| Toxic for reproduction : Fertility | : No known effects from this product. |
| Toxic for reproduction : unborn child | : No known effects from this product. |
| STOT-single exposure | : No known effects from this product. |
| STOT-repeated exposure | : No known effects from this product. |
| Aspiration hazard | : Not applicable for gases and gas mixtures. |
| SECTION 12: Ecological inform | ation |
| 12.1. Toxicity | |
| Assessment | : No ecological damage caused by this product. |
| EC50 48h - Daphnia magna | : No data available. |
| EC50 72h - Algae | : No data available. |
| LC50 96 h - Fish | : No data available. |
| | |

12.2. Persistence and degradability

| 12.2.1 croistence and degradability | |
|--|---|
| Assessment | : No ecological damage caused by this product. |
| 12.3. Bioaccumulative potential | |
| Assessment | : No data available. |
| 12.4. Mobility in soil | |
| Assessment | : Because of its high volatility, the product is unlikely to cause ground or water pollution. Partition into soil is unlikely. |
| 12.5. Results of PBT and vPvB assessment | |
| Assessment | : Not classified as PBT or vPvB. |
| 12.6. Other adverse effects | |
| Other adverse effects Effect on the ozone layer Effect on global warming | No known effects from this product. None. Contains greenhouse gas(es). |
| SECTION 13: Disposal consideration | ons |
| 13.1. Waste treatment methods | |
| | May be vented to atmosphere in a well ventilated place. Do not discharge into any place where its accumulation could be dangerous. |

Return unused product in original receptacle to supplier.

List of hazardous waste codes (from Commission : 16 05 05 : Gases in pressure containers other than those mentioned in 16 05 04.



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External treatment and disposal of waste should comply with applicable local and/or national regulations.

| NN-No. : 1956 14.2. UN proper shipping name Transport by read/rail (ADR/ND) · COMPRESSED GAS, N.O.S. (Nirogen, Carbon dioxide) Transport by are (ICAO-TI/IATA-DGR) · Compressed gas, n.o.s. (Nirogen, Carbon dioxide) Transport by and (ICAO-TI/IATA-DGR) · COMPRESSED GAS, N.O.S. (Nirogen, Carbon dioxide) 14.3. Transport hazard class(es) Labeling · Compressed gas, n.o.s. (Nirogen, Carbon dioxide) 14.3. Transport by cad/rail (ADR/ND) Class · 2 Class-fication code · 1 A Hazard dontfication number · 2 30 Tunnel Restriction · E · F-Ressage forbidden through tunnels of category E Transport by (Sub rak(s)) · 2 Class · 2 Class-fication code · 1 A Hazard dontfication number · 2 30 Tunnel Restriction · 2 · C - Passage forbidden through tunnels of category E Transport by (Sub rak(s)) · 2 Class · 2 Class-fication code · 2 · 4 Class-fication code | SECTION 14: Transport informa | tion |
|---|---|---|
| 14.2. UN proper shipping name Transport by read/ail (ADR/ID) COMPRESSED GAS, N.O.S. (Nirogen, Carbon dioxide) Transport by ail (CAO-TI / IATA-DGR) COMPRESSED GAS, N.O.S. (Nirogen, Carbon dioxide) 14.3. Transport hazard class(es) Commenses gas, n.o.s. (Nirogen, Carbon dioxide) 14.4. Transport hazard class(es) Commenses gas, n.o.s. (Nirogen, Carbon dioxide) 14.3. Transport hazard class(es) Commenses gas. Labeling : | 14.1. UN number | |
| Transport by read/all (ADR/RID) COMPRESSED GAS, N.O.S. (Nitrogen, Carbon dioxide) Compressed gas, Carbon dioxide, Carbon dioxide) Compressed gas, n.o.s. (Nitrogen, Carbon dioxide) Compressed gas, Carbon dioxide, Carbon dioxide) Compressed gas, Carbon dioxide, Carbon dioxide, Carbon dioxide) Compressed gas, Carbon dioxide, Carbon dioxide, | UN-No. | : 1956 |
| Transport by air (ICAO-TI / IATA-DOR) Compressed gas, n.o.s. (Nitrogen, Carbon dioxide) Itansport by sea (IMDG) COMPRESSED GAS, N.O.S. (Nitrogen, Carbon dioxide) Ital. Transport hazard class(es) | 14.2. UN proper shipping name | |
| Transport by sea (MDG) COMPRESSED GAS, N.O.S. (Nitrogen, Carbon dioude) 14.3. Transport hazard class(es) | Transport by road/rail (ADR/RID) | COMPRESSED GAS, N.O.S. (Nitrogen, Carbon dioxide) |
| Transport by sea (MDG) : COMPRESSED GAS, N.O.S. (Nitrogen, Carbon dioxide) 14.3. Transport Inzard class(es) | Transport by air (ICAO-TI / IATA-DGR) | Compressed gas, n.o.s. (Nitrogen, Carbon dioxide) |
| Labeling : : | Transport by sea (IMDG) | |
| A value of the set of the se | 14.3. Transport hazard class(es) | |
| Transport by read/rail (ADR/RID) : Class : : Class : : ClassIncation code : : Hazard identification number : : Transport by air (ICAO-TI / IATA-DGR) : : Transport by as (IMOS) : : : Class / INV, Sick, risk(s) : : : : Class / INV, Sick, risk(s) : : : : : Class / INV, Sick, risk(s) : : : : : : Class / INV, Sick, risk(s) : < | Labelling | |
| Transport by read/rail (ADR/RID) : Class : : Class : : ClassIncation code : : Hazard identification number : : Transport by air (ICAO-TI / IATA-DGR) : : Transport by as (IMOS) : : : Class / INV, Sick, risk(s) : : : : Class / INV, Sick, risk(s) : : : : : Class / INV, Sick, risk(s) : : : : : : Class / INV, Sick, risk(s) : < | | 2.2 : Non-flammable, non-toxic gases. |
| Classification code : 1A Hazard identification number : 20 Transport by air (ICAO-T1 / IATA-DOR) : 2.2 Class / Div. (Sub. risk(s)) : 2.2 Transport by sea (IMDO) : 2.2 Emergency Schedule (ErmS) - Fire : 5.7 Emergency Schedule (ErmS) - Spilage : S-V 14.4 Packing group : Not applicable Transport by sea (IMDG) : Not applicable Transport by air (ICAO-T1 / IATA-DGR) : Not applicable Transport by air (ICAO-T1 / IATA-DGR) : None. 14.5 Special procautions for user Passenger and Cargo Aircraft Passenger and Cargo Aircraft : 200. Cargo Aircraft only : 200. Cargo Aircraft only : 200. Special transport by sea (IMDG) : P200 Special transport precautions : Ensure value of the potential hazards of the load and knows what to do in the event of ar accident or an emergency. Ensure value or othe doriver is aware of the potential hazards of the load | Transport by road/rail (ADR/RID) | |
| Hazard identification number : 20 Tunne Restriction : E - Passage forbidden through tunnels of category E Transport by air (ICAO-T1 / IATA-DGR) : Class / Dv. (Sub. risk(i)) : 2.2 Transport by air (ICAO) : Class / Dv. (Sub. risk(i)) : 2.2 Emergency Schedule (EmS) - Fire : F. C. Emergency Schedule (EmS) - Spilage : Sv 14.4. Packing group : Transport by roadriai (ADR/RID) : Not applicable Transport by roadriai (ADR/RID) : Not applicable Transport by roadriai (ADR/RID) : Not applicable Transport by roadriai (ADR/RID) : None. Transport by roadriai (ADR/RID) : None. Transport by roadriai (ADR/RID) : None. Transport by roadriai (ADR/RID) : P200 Transport by roadriai (ADR/RID) : P200. Transport by sea (IMDG) : P200. Transpor | Class | : 2 |
| Tunnel Restriction : E - Passage forbidden through tunnels of category E Tansport by sir (ICAO-T1/IATA-DGR) : 2.2 Tansport by sea (IMDG) : 2.2 Emergency Schedule (EmS) - Fin : F-C Emergency Schedule (EmS) - Spillage : S-V 14.4. Packing group : Not applicable Transport by road/rail (ADR/RID) : Not applicable Transport by road/rail (ADR/RID) : Not applicable Transport by road/rail (ADR/RID) : Not applicable Transport by sea (IMDG) : Not applicable Transport by road/rail (ADR/RID) : None. 17.5. Special precautions for user - Passenger and Cargo Aircraft 17.6. Special precautions for user - Passenger and Cargo Aircraft 17.3. Special (ADR/RID) : 20.0 Cargo Aircraft only 17.3. Special precautions : 200. Cargo Aircraft only 17.4. Special precautions : 200. Special transport precautions 2. Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure whick driver is aware of the poste | Classification code | : 1A |
| Transport by air (ICAO-TI / IATA-DGR) 2.2 Transport by air (IAD, fisk(si)) 2.2.2 Emergency Schedule (EmS) - Fine F.C Emergency Schedule (EmS) - Spilage 5V 14.4. Packing group Transport by air (IAD, I/ IATA-DGR) Transport by air (ICAO-TI / IATA-DGR) Not applicable Transport by air (ICAO-TI / IATA-DGR) Not applicable 14.5. Environmental hazards Transport by air (ICAO-TI / IATA-DGR) Transport by air (ICAO-TI / IATA-DGR) None. Transport by air (ICAO-TI / IATA-DGR) Passenger and Cargo Aircraft Transport by air (ICAO-TI / IATA-DGR) P200 Special transport precautions Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle d | Hazard identification number | : 20 |
| Class / Div. (Sub. risk(s)) : 2.2 Transport by sea (IMDO) Class / Div. (Sub. risk(s)) : 2.2 Emergency Schedule (EmS) - Fire : F-C Emergency Schedule (EmS) - Spillage : S-V 14.4 Packing group Transport by road/rail (ADR/RID) : Not applicable Transport by sea (IMDG) : Not applicable 14.5 Environmental hazards 14.5 Environmental hazards 14.6 Environmental hazards 14.5 Environmental hazards 14.5 Environmental hazards 14.6 Special precautions for user Packing Instruction(s) Transport by sea (IMDG) : None. 14.6 Special precautions for user Packing Instruction(s) Transport by sea (IMDG) : P200 Transport by sea (IMDG) : P200 Special transport precautions 14.6 Special precautions 15.7 Special (CAO-TI / IATA-DGR) : P200 Transport by sea (IMDG) : P200 Special transport precautions 16.8 Special for search : 200. Cargo Aircraft only : 200. Transport by sear (IMDG) : P200 Special transport precautions 17.8 Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of ar accident or an emergency. Before transport precautions 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Tunnel Restriction | : E - Passage forbidden through tunnels of category E |
| Transport by sea (IMDG) : 2.2 Class / Dv. (Sub. risk(s)) : F.C Emergency Schedule (EmS) - Spillage : S-V 14.4. Packing group : Transport by road/rail (ADR/RID) : Not applicable Transport by sai (IMOG) : Not applicable 14.5. Environmental hazards : Transport by road/rail (ADR/RID) : None. Transport by road/rail (ADR/RID) : P200 Transport by air (ICAO-TI / IATA-DGR) : 200. Cargo Aircraft only : 200. Cargo Aircraft only : P200 Transport by saie (IMDG) : P200 Special transport precautions : Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicici | Transport by air (ICAO-TI / IATA-DGR) | |
| Class / Div. (Sub. risk(s)) : 2 2.2 Emergency Schedule (EmS) - Fire : F-C Emergency Schedule (EmS) - Spillage : S-V 14.4. Packing group Transport by road/rail (ADR/RID) : Not applicable Transport by sat (INGO) : Not applicable 14.5. Environmental hazards 14.6. Special precautions for user Packing Instructions for user Passenger and Cargo Aircraft : 200. Cargo Aircraft only : 200. Transport by as (IMDG) : P200 Special transport precautions 1 Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of ar accident or an emergency. Before transporting product containers: - Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of ar accident or an emergency. Before transporting product containers: - Ensure valve potential containers: - Ensure valve potential containers: - Ensure valve acidence on an of pill (where provided) is correctly fitted. - Ensure valve potential containers: - Ensure valve is advecue (where provided) is correctly fitted. - Ensure valve is advecue (where provided) is correctly fitted. - Ensure valve potential match (Where Provided) is correctly fitted. - Ensure valve is advecue (where provided) is correctly fitted. - Ensure valve valve potential match | Class / Div. (Sub. risk(s)) | : 2.2 |
| Emergency Schedule (EmS) - Fire : FC Emergency Schedule (EmS) - Spillage : SV 14.4 Packing group 17 Enasport by cad/rail (ADR/RID) : Not applicable Transport by air (ICAO-TI / IATA-DGR) : Not applicable 14.5 Environmental hazards 17 Ensport by sea (IMDG) : None. 17 Ensport by sea (IMDG) : None. 16 Special precautions for user Packing Instruction(S) 17 Ensport by road/rail (ADR/RID) : 200. Cargo Aircraft only : 200. Cargo Aircraft only : 200. Special transport precautions Special transport precautions Special transport precautions Special transport precautions 16 Avoid transport on vehicles where the load space is not separated from the driver's compatment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of ar accident or an emergency. Before transport precautions 17 Ensure thar is adequate ventilation. - Ensure thar containers are firmly secured. - Ensure valve protection device (where provided) is correctly fitted. - Ensure valve protection device (where provided) is correctly fitted. - Ensure valve protection device (where provided) is correctly fitted. - Ensure valve protection device (where provided) is correctly fitted. - Ensure valve protection device (where provided) | Transport by sea (IMDG) | |
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SECTION 15: Regulatory information



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SDS_Ind.Mix_013

Alipak 333C

| 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture | | | |
|---|--|--|--|
| EU-Regulations | | | |
| - | | | |
| Restrictions on use | : None. | | |
| Seveso Directive : 2012/18/EU (Seveso III) | : Not covered. | | |
| | | | |
| National regulations | | | |
| National legislation | : Ensure all national/local regulations are observed. | | |
| 15.2. Chemical safety assessment | | | |
| | A CSA does not need to be carried out for this product. | | |
| SECTION 16: Other information | | | |
| Indication of changes | : Revised safety data sheet in accordance with commission regulation (EU) No 453/2010. | | |
| Abbreviations and acronyms | : ATE: Acute Toxicity Estimate | | |
| | CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 | | |
| | REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No | | |
| | 1907/2006 | | |
| | EINECS: European Inventory of Existing Commercial Chemical Substances | | |
| | CAS: Chemical Abstract Service | | |
| | PPE: Personal Protection Equipment | | |
| | LC50 - Lethal Concentration to 50 % of a test population | | |
| | RMM: Risk Management Measures PBT - Persistent, Bioaccumulative and Toxic | | |
| | vPvB - Very Persistent and Very Bioaccumulative | | |
| | STOT- SE: Specific Target Organ Toxicity - Single Exposure | | |
| | CSA: Chemical Safety Assessment | | |
| | EN: European Standard | | |
| | UN: United Nations | | |
| | ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road | | |
| | IATA - International Air Transport Association | | |
| | IMDG code - International Maritime Dangerous Goods | | |
| | RID - Regulations concerning the International Carriage of Dangerous Goods by Rail | | |
| | WGK: Water Hazard Class | | |
| | STOT - RE: Specific Target Organ Toxicity - Repeated Exposure | | |
| Training advice | : The hazard of asphyxiation is often overlooked and must be stressed during operator training. | | |
| | For more guidance, refer to EIGA SL 01 "Dangers of Asphyxiation", downloadable at http://www.eiga.eu | | |
| Further information | : Classification using data from databases maintained by the European Industrial Gases Association (EIGA). | | |
| Full wording of relevant H Statements and classification | Classification in accordance with the calculation methods of Regulation (EC) 1272/2008 CLP. | | |

Full wording of relevant H Statements and classification codes

| Ox. Gas 1 | Oxidising Gases, Category 1 |
|--------------------|---|
| Press. Gas (Comp.) | Gases under pressure: Compressed gas |
| Press. Gas (Liq.) | Gases under pressure: Liquefied gas |
| H270 | May cause or intensify fire; oxidiser. |
| H280 | Contains gas under pressure; may explode if heated. |

DISCLAIMER OF LIABILITY

: Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.

Details given in this document are believed to be correct at the time of going to press.

Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.