#### Safety Data Sheet (SDS)

Antimony Trioxide

| 1.CHEMICAL PRODUCT AND C        | OMPANY IDENTIFICATION  |  |  |  |  |  |
|---------------------------------|--|--|--|--|--|--|
| Substance name:                 | Antimony Trioxide (Grade name described in last page)                    |  |  |  |  |  |
| Product name:                   | PATOX series (Grade name described in last page)                         |  |  |  |  |  |
| Company name:                   | NIHON SEIKO CO.,LTD.   |  |  |  |  |  |
| Address                         | 3-2 SHIMOMIYABI-CHO SHINJUKU-KU TOKYO                                    |  |  |  |  |  |
|                                 | 162-0822 JAPAN   |  |  |  |  |  |
| Charge section                  | SALES DEPT.  |  |  |  |  |  |
| Phone number                    | +81-3-3235-0031  |  |  |  |  |  |
| Fax number                      | +81-3-3235-0034  |  |  |  |  |  |
| E-mail address                  | mail@nihonseiko.co.jp  |  |  |  |  |  |
| Emergency telephone number      | NAKASE REFINERY  |  |  |  |  |  |
| Emergency telephone number      | UALITY ASSURANCE SECTION   |  |  |  |  |  |
|                                 | +81-79-667-2121  |  |  |  |  |  |
| Recommended use and restriction |  |  |  |  |  |  |
| on use:                         | Industrial materials: Flame retardant additives, Pigments, Polyester     |  |  |  |  |  |
|                                 | polymerization catalysts, decolorizing and finding agent of              |  |  |  |  |  |
|                                 | optical lenses, Variable resistors, etc.                                 |  |  |  |  |  |
|                                 |  |  |  |  |  |  |
| 2.HAZARDS IDENTIFICATION        |  |  |  |  |  |  |
| GHS classification :            |  |  |  |  |  |  |
| Health hazards                  | Carcinogenicity :Category 2  |  |  |  |  |  |
| GHS label:                      |  |  |  |  |  |  |
| Hazard pictogram                |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |
| Signal word                     | Warning  |  |  |  |  |  |
| Hazard statements               | Suspected of causing cancer  |  |  |  |  |  |
| Precautionary statements        | [Prevention]   |  |  |  |  |  |
|                                 | Obtain special instructions before use.                                  |  |  |  |  |  |
|                                 | Do not handle until all safety precautions have been read and            |  |  |  |  |  |
|                                 | understood.  |  |  |  |  |  |
|                                 | Wear protective gloves/protective clothing/eye protection/face           |  |  |  |  |  |
|                                 | protection.  |  |  |  |  |  |
|                                 | [Response]   |  |  |  |  |  |
|                                 | If exposed or concerned: Get medical advice/attention.                   |  |  |  |  |  |
|                                 | [Storage]  |  |  |  |  |  |
|                                 | Store locked up.   |  |  |  |  |  |
|                                 | [Disposal]   |  |  |  |  |  |
|                                 | Dispose of contents/container in accordance with local/regional/national |  |  |  |  |  |
|                                 | /international regulations(to be specified).                             |  |  |  |  |  |
| Other hazard not applicable to  |  |  |  |  |  |  |
| GHS classification hazard:      | No information.  |  |  |  |  |  |
| The summary of important signs  |  |  |  |  |  |  |
| and assumed emergency:          | No information.  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |
|                                 |  |  |  |  |  |  |

Antimony Trioxide Issue No: Q0725-09 Issue Date: March 25, 2022 Page 1 of 6

| 3.COMPOSITION / INFORMATION ON INGREDIENTS         Substance/Mixture:       Substance         Substance/Mixture:       Substance         General product description:       Antimony Trioxide         Other name:       Diantimony Trioxide         Chemical property       Sb2O3         CAS number:       1309-64-4         Component and its content:       Described in last page.         EINECS number:       215-175-0         Impurity and stabilizing additive that contribute to GHS Classification:       Described in last page.         4.FIRST AID MEASURES       Following inhalation:         Following skin contact:       Move affected person to fresh air.         Following skin contact:       Hush with water and remove clothes if necessary.         Following eye contact:       Flush eyes thoroughly with water, also under eyelids.         After ingestion:       If you feel sick, seek medical attention.         Most important symptoms and effects, both acute and delayed:       Acute or delayed effects are not anticipated for antimony trioxide.         No information.       Special precaution statement for doctor:       No information.         Strier-fighting measure       Use fire-fighting measures that suit the environment. The product is not combustible and does not support the combustion.         No information.       No information. </th     |
|--|
| General product description:       Antimony Trioxide         Other name:       Diantimony Trioxide         Other name:       Diantimony Trioxide         Chemical property       Sb <sub>2</sub> O <sub>3</sub> (Chemical formula etc):       Sb <sub>2</sub> O <sub>3</sub> CAS number:       1309-64-4         Component and its content:       Described in last page.         EINECS number:       215-175-0         Impurity and stabilizing additive that contribute to GHS Classification:       Described in last page. <b>AFIRST AID MEASURES</b> Following inhalation:         Following skin contact:       Move affected person to fresh air.         If you feel sick, seek medical attention.       Flush eyes thoroughly with water, also under eyelids.         Following skin contact:       Flush eyes thoroughly with water, also under eyelids.         Following eye contact:       Rinse mouth with water, also under eyelids.         Most important symptoms and effects, both acute and delayed:       Acute or delayed effects are not anticipated for antimony trioxide.         No information.       Special precaution statement for doctor:       No information.         Stre-fighting measure       Use fire-fighting measures that suit the environment. The product is not combustible and does not support the combustion.         No information.       No information. |
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| Unsuitable extinguishing media: The product is not combustible and does not support the combustion. No information.  |
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|  |
| Special hazards arising from the   |
| Substance or mixture: Antimony trioxide dust.  |
| Specific fire-fighting: Move the product to safe place promptly when it is a fire in the surrounding.  |
| If it is non-transferable, sprinkle the container and the circle with water and  |
| cool down.   |
| Protection for fire-fighter: Wear suitable protective equipment in fire-fighting.  |
| 6.Accidental release measures  |
| Personal precautions, protective   |
| equipment and emergency  |
| procedures: Avoid formation of dust.   |
| Ensure adequate ventilation.   |
|  |
| Keep unprotected persons away.   |
| It is advised to avoid contact with skin, eyes, and clothing – wear suitable   |
| protective equipment.  |
|  |
| Avoid inhalation of dust.  |
| Environmental precautions: It is advised that in the event of an accidental release the product should be  |
| Environmental precautions: It is advised that in the event of an accidental release the product should be prevented from reaching the sewage system or any water course and  |
| Environmental precautions: It is advised that in the event of an accidental release the product should be prevented from reaching the sewage system or any water course and penetrating the soil.  |
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| Environmental precautions:<br>It is advised that in the event of an accidental release the product should be<br>prevented from reaching the sewage system or any water course and<br>penetrating the soil.<br>Dispose of spilled material in accordance with the relevant regulations.<br>In any case avoid dust formation.<br>Sweep all spilled material or use an appropriate industrial vacuum cleaner.   |

Antimony Trioxide Issue No: Q0725-09 Issue Date: March 25, 2022 Page 2 of 6

# **INTERNATION SEIKO CO., LTD.**

| Prevention of second disaster:   | For more information on exposure controls/personal protection or disposal considerations, check section 8 and 13 of this safety data sheet.   |
|--|---|
| 7.Handling and storage   |   |
| Handling:  |   |
| Technological countermeasure   | Provide a local dust collection system in the places where dust can be  |
| (local ventilation/ General  | generated. Provide dust protective mask in the handling position.   |
| Ventilation etc.)  |   |
| Safety precaution  | Do not handle until all safety precautions have been read and   |
|  | understood.   |
|  | Work by wearing suitable protective equipment.  |
| Avoid contact  | Check section 10.   |
| Hygiene measure  | Avoid inhalation or ingestion.  |
|  | General occupational hygiene measures are required to ensure a safe   |
|  | handling of the substance.  |
|  | (i.e. regular cleaning with suitable cleaning devices).   |
|  | No eating, drinking and smoking at the workplace.   |
|  | Wash hands after use.   |
|  | Remove contaminated clothing and protective equipment before entering   |
|  | eating areas.   |
|  | Shower and change clothes at end of work shift.   |
|  | Do not wear contaminated clothing at home. Do not blow dust off with  |
|  | compressed air.   |
| Storage:   |   |
| Safety storage condition   | Store in well ventilated dry area with low humidity and sealed  |
| ~  | state in order to avoid moisture absorption.  |
|  |   |
| Safety packaging material  | Establish whether the container conforms test standard on a   |
| Safety packaging material  | Establish whether the container conforms test standard on a voluntary basis.  |
|  | voluntary basis.  |
| 8.EXPOSURE CONTROLS / PER  | voluntary basis.  |
| 8.EXPOSURE CONTROLS / PER<br>Exposure control limits   | voluntary basis.  |
| <b>8.EXPOSURE CONTROLS / PER</b><br>Exposure control limits<br>Effect of over exposure:  | voluntary basis. SONAL PROTECTION   |
| 8.EXPOSURE CONTROLS / PER<br>Exposure control limits   | voluntary basis. SONAL PROTECTION 0.02mg/m <sup>3</sup> TLV-TWA   |
| <b>8.EXPOSURE CONTROLS / PER</b><br>Exposure control limits<br>Effect of over exposure:<br>ACGIH(2021)   | voluntary basis. SONAL PROTECTION 0.02mg/m <sup>3</sup> TLV-TWA (Antimony Trioxide)   |
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| <b>8.EXPOSURE CONTROLS / PER</b><br>Exposure control limits<br>Effect of over exposure:<br>ACGIH(2021)   | voluntary basis.<br><b>SONAL PROTECTION</b><br>0.02mg/m <sup>3</sup> TLV-TWA<br>(Antimony Trioxide)<br>Prevent formation of dust where possible. Ensure appropriate<br>ventilation/exhaustion at machinery and places where dust can be<br>generated. Any deposit of dust which cannot be avoided must be regularly<br>removed using preferably appropriate industrial vacuum cleaners.<br>Waste air is to be released into the atmosphere only when it has passed<br>through suitable dust separators.   |
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| 8.EXPOSURE CONTROLS / PER<br>Exposure control limits<br>Effect of over exposure:<br>ACGIH(2021)<br>Engineering controls:   | voluntary basis.<br><b>SONAL PROTECTION</b><br>0.02mg/m <sup>3</sup> TLV-TWA<br>(Antimony Trioxide)<br>Prevent formation of dust where possible. Ensure appropriate<br>ventilation/exhaustion at machinery and places where dust can be<br>generated. Any deposit of dust which cannot be avoided must be regularly<br>removed using preferably appropriate industrial vacuum cleaners.<br>Waste air is to be released into the atmosphere only when it has passed<br>through suitable dust separators.<br>Waste water generated during the production process or cleaning operations   |
| <b>8.EXPOSURE CONTROLS / PER</b><br>Exposure control limits<br>Effect of over exposure:<br>ACGIH(2021)<br>Engineering controls:<br>Personal protective equipment:  | voluntary basis.<br><b>SONAL PROTECTION</b><br>0.02mg/m <sup>3</sup> TLV-TWA<br>(Antimony Trioxide)<br>Prevent formation of dust where possible. Ensure appropriate<br>ventilation/exhaustion at machinery and places where dust can be<br>generated. Any deposit of dust which cannot be avoided must be regularly<br>removed using preferably appropriate industrial vacuum cleaners.<br>Waste air is to be released into the atmosphere only when it has passed<br>through suitable dust separators.<br>Waste water generated during the production process or cleaning operations<br>should be collected and should preferably be treated in an on-site waste<br>water treatment plant which ensures efficient removal of antimony.   |
| 8.EXPOSURE CONTROLS / PER<br>Exposure control limits<br>Effect of over exposure:<br>ACGIH(2021)<br>Engineering controls:<br>Personal protective equipment:<br>Respiratory protection   | voluntary basis.<br><b>SONAL PROTECTION</b><br>0.02mg/m <sup>3</sup> TLV-TWA<br>(Antimony Trioxide)<br>Prevent formation of dust where possible. Ensure appropriate<br>ventilation/exhaustion at machinery and places where dust can be<br>generated. Any deposit of dust which cannot be avoided must be regularly<br>removed using preferably appropriate industrial vacuum cleaners.<br>Waste air is to be released into the atmosphere only when it has passed<br>through suitable dust separators.<br>Waste water generated during the production process or cleaning operations<br>should be collected and should preferably be treated in an on-site waste   |
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| <ul> <li><b>8.EXPOSURE CONTROLS / PER</b></li> <li>Exposure control limits</li> <li>Effect of over exposure:<br/>ACGIH(2021)</li> <li>Engineering controls:</li> <li>Personal protective equipment:<br/>Respiratory protection<br/>Hand protection<br/>Eye protection<br/>Skin and body protection<br/>Special precaution statement</li> <li><b>9.PHYSICAL AND CHEMICAL</b></li> </ul>                 | voluntary basis.<br>SONAL PROTECTION<br>0.02mg/m <sup>3</sup> TLV-TWA<br>(Antimony Trioxide)<br>Prevent formation of dust where possible. Ensure appropriate<br>ventilation/exhaustion at machinery and places where dust can be<br>generated. Any deposit of dust which cannot be avoided must be regularly<br>removed using preferably appropriate industrial vacuum cleaners.<br>Waste air is to be released into the atmosphere only when it has passed<br>through suitable dust separators.<br>Waste water generated during the production process or cleaning operations<br>should be collected and should preferably be treated in an on-site waste<br>water treatment plant which ensures efficient removal of antimony.<br>Dust protective mask(As appropriate)<br>Protective gloves<br>Protective gloses<br>Protective high boots and cloth<br>Although the substance is not classified as dangerous to the<br>environment, avoid environmental discharge.                      |

Antimony Trioxide Issue No: Q0725-09 Issue Date: March 25, 2022 Page 3 of 6

| Color                                  | White  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| Odor:                                  | Odorless   |  |  |  |  |  |
| Melting point:                         | 656 °C at 1013 hPa   |  |  |  |  |  |
| Initial boiling point and boiling      |  |  |  |  |  |  |
| range:                                 | 1425 °C at 1013 hPa  |  |  |  |  |  |
| Flammability:                          | Non-flammable. This substance does not contain any chemical groups                   |  |  |  |  |  |
|  | that might lead to spontaneous ignition a short time after coming in                 |  |  |  |  |  |
|  | contact with air at room temperature (circa 20°C). Furthermore,                      |  |  |  |  |  |
|  | long-term industrial experience in handling shows that the substance                 |  |  |  |  |  |
|  | does not ignite in contact with air.   |  |  |  |  |  |
| Upper/lower flammability or            |  |  |  |  |  |  |
| explosive limits:                      | Non explosive. Antimony trioxide exhibits no chemical groups                         |  |  |  |  |  |
|  | indicating explosive properties.   |  |  |  |  |  |
| Flash point:                           | Not applicable as only relevant for liquids or low melting point                     |  |  |  |  |  |
|  | solids.  |  |  |  |  |  |
| Auto-ignition temperature:             | Not relevant since this would require heat to be developed either by                 |  |  |  |  |  |
|  | reaction of this substance with oxygen or by exothermic                              |  |  |  |  |  |
|  | decomposition and which is not lost rapidly enough to the                            |  |  |  |  |  |
| Decomposition tonorton                 | surroundings.  |  |  |  |  |  |
| Decomposition temperature:             | Does not decompose if used as intended.<br>No information.                           |  |  |  |  |  |
| pH:<br>kinematic viscosity:            | No information.  |  |  |  |  |  |
| Solubility(ies):                       | 2.76 mg/l  |  |  |  |  |  |
| Solubility(les).                       | (22.2°C -ISO 6341 medium-loading 100 mg Sb <sub>2</sub> O <sub>3</sub> /l-pH 8)      |  |  |  |  |  |
| Partition coefficient n-octanol/water: | No information.  |  |  |  |  |  |
| Vapor pressure:                        | 5mmHg (625°C)  |  |  |  |  |  |
| Relative density:                      | 5.2  |  |  |  |  |  |
| Relative vapour density:               | No information.  |  |  |  |  |  |
| Particle characteristics:              | $<10\mu$ m   |  |  |  |  |  |
| Other:                                 | No information.  |  |  |  |  |  |
|  | ·  |  |  |  |  |  |
| <b>10.STABILITY AND REACTIVITY</b>     |  |  |  |  |  |  |
| Reactivity:                            | No information.  |  |  |  |  |  |
| Chemical stability:                    | Under normal conditions of use and storage, the product is stable.                   |  |  |  |  |  |
| Possibility of hazardous reactions:    | Reaction with H <sup>-</sup> -equivalents releases antimony hydride                  |  |  |  |  |  |
|  | (stibine, SbH <sub>3</sub> ). Hazardous polymerization will not occur.               |  |  |  |  |  |
| Conditions to avoid:                   | Avoid dust formation.  |  |  |  |  |  |
| Incompatible materials:                | Reaction with H <sup>-</sup> -equivalents releases antimony hydride                  |  |  |  |  |  |
|  | (stibine, SbH <sub>3</sub> ). Strong acids/bases. Reducing agents.<br>See section 7. |  |  |  |  |  |
| Hazardous decomposition products:      | Does not decompose if used as intended.  |  |  |  |  |  |
| Other:                                 | No information.  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| 11.TOXICOLOGICAL INFORMAT              | ION  |  |  |  |  |  |
| Acute Toxicity (Oral):                 | $LD_{50}$ rat > 20,000 mg/kg bw  |  |  |  |  |  |
|  | (Fleming, 1938; Gross et al, 1955; Weil et al, 1978)                                 |  |  |  |  |  |
| Acute Toxicity (Dermal):               | LD <sub>50</sub> rabbit > 8,300 mg/kg bw (Gross et al, 1955)                         |  |  |  |  |  |
| Acute Toxicity                         |  |  |  |  |  |  |
| (Inhalation: dust/mist):               | LC <sub>50</sub> rat> 5,200 mg/m <sup>3</sup> (Leuschner, 2006)                      |  |  |  |  |  |
| Acute Toxicity                         |  |  |  |  |  |  |
| (Inhalation: fume/vapors):             | Out of category to powder.   |  |  |  |  |  |
| Skin corrosion/irritation:             | Causes mild skin irritation. Especially can cause dermatitis on contact with         |  |  |  |  |  |
|  | sweat-damp region over again or prolonged contact. Dermatitis that                   |  |  |  |  |  |
| Continue and damage for the t          | known as "antimony spots" can cause rash after itchiness.                            |  |  |  |  |  |
| Serious eye danger/irritation:         | Antimony trioxide is not irritating to eyes.(Leuschner, 2005)                        |  |  |  |  |  |

Antimony Trioxide Issue No: Q0725-09 Issue Date: March 25, 2022 Page 4 of 6

| Respiratory or skin sensitization:   | Not skin sensitizing (Chevalier, 2005; Moore, G.E, 1994) / no respiratory   |  |  |  |  |
|--|---|--|--|--|--|
|  | sensitizer.   |  |  |  |  |
| Germ cell mutagenicity:  | Antimony trioxide does not cause systemic mutagenicity in vivo after oral<br>administration. Negative in vivo results on chromosome aberrations and<br>micronuclei were obtained in two different species via oral application<br>– mouse (Elliot et al., 1998) and rat (Whitwell, 2006),<br>(Kirkland et al., 2007). |  |  |  |  |
| Carcinogenicity:   |   |  |  |  |  |
| Japan Society for Occupational   |   |  |  |  |  |
| Health   | Category 2B   |  |  |  |  |
| ACGIH  | A2 (Antimony trioxide production)   |  |  |  |  |
| EPA  | No information.   |  |  |  |  |
| NTP  | Reasonably anticipated to be a human carcinogen   |  |  |  |  |
| EU   | Category 2 (regulation(EC)1272/2008)  |  |  |  |  |
| IARC   | Group 2B  |  |  |  |  |
| Reproductive toxicity:   | Based on the available long-term toxicity studies in rodents<br>(Omura et al, 2002) and the relevant information on the<br>toxicokinetic behavior in rats, it is concluded that antimony trioxide<br>does not present a reproductive toxicity hazard.   |  |  |  |  |
| STOT single exposure:  | Antimony trioxide is not classified as STOT, single exposure.   |  |  |  |  |
| STOT repeated exposure:  | Antimony trioxide is not classified as STOT, repeated exposure.   |  |  |  |  |
| Aspiration hazard:   | Classification not possible, because of a lack of information.  |  |  |  |  |
| Other:   | No information.   |  |  |  |  |
| <b>12.ECOLOGICAL INFORMATION</b>   |   |  |  |  |  |
| Ecotoxicity:   | Classification not possible, because of a lack of information.  |  |  |  |  |
| Persistence and degradability:   | No information.   |  |  |  |  |
| Bioaccumulative potential:   | No information.   |  |  |  |  |
| Mobility in soil:  | No information.   |  |  |  |  |
| Hazardous to the ozone layer:<br>Other:  | No information.   |  |  |  |  |
| Ouler.   | No information.   |  |  |  |  |
| 13.DISPOSAL CONSIDERATIONS   |   |  |  |  |  |
| Waste from residues:   | Dispose of contents in accordance with local/regional/national  |  |  |  |  |
|  | /international regulations(to be specified).  |  |  |  |  |
| Contaminated container/packing:  | Dispose of container in accordance with local/regional/national   |  |  |  |  |
|  | /international regulations(to be specified).  |  |  |  |  |
| 14.TRANSPOT INFORMATION  |   |  |  |  |  |
| International regulation:  |   |  |  |  |  |
|  |   |  |  |  |  |
| UN code  | Not applicable.*  |  |  |  |  |
| UN code<br>Proper shipping name  | Not applicable.   |  |  |  |  |
| UN code<br>Proper shipping name<br>UN Class  | Not applicable.<br>Not applicable.  |  |  |  |  |
| UN code<br>Proper shipping name<br>UN Class<br>Packing group   | Not applicable.<br>Not applicable.<br>Not applicable.   |  |  |  |  |
| UN code<br>Proper shipping name<br>UN Class<br>Packing group<br>Marine pollutant   | Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.  |  |  |  |  |
| UN code<br>Proper shipping name<br>UN Class<br>Packing group<br>Marine pollutant<br>*UN regulation : The special provision S   | Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>SP45 is applicable to the UN number 1549 (Hazard class6.1 and packaging   |  |  |  |  |
| UN code<br>Proper shipping name<br>UN Class<br>Packing group<br>Marine pollutant<br>*UN regulation : The special provision S<br>group III). It means that antimony sulfide   | Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>BP45 is applicable to the UN number 1549 (Hazard class6.1 and packaging<br>es and oxides, which contain not more than 0.5% of arsenic calculated on the   |  |  |  |  |
| UN code<br>Proper shipping name<br>UN Class<br>Packing group<br>Marine pollutant<br>*UN regulation : The special provision S<br>group III). It means that antimony sulfid<br>total weight, are not subject to these regu   | Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>SP45 is applicable to the UN number 1549 (Hazard class6.1 and packaging<br>es and oxides, which contain not more than 0.5% of arsenic calculated on the<br>ilations.  |  |  |  |  |
| UN code<br>Proper shipping name<br>UN Class<br>Packing group<br>Marine pollutant<br>*UN regulation : The special provision S<br>group III). It means that antimony sulfid<br>total weight, are not subject to these regu<br><b>15.REGULATORY INFORMATION</b>   | Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>SP45 is applicable to the UN number 1549 (Hazard class6.1 and packaging<br>es and oxides, which contain not more than 0.5% of arsenic calculated on the<br>ilations.  |  |  |  |  |
| UN code<br>Proper shipping name<br>UN Class<br>Packing group<br>Marine pollutant<br>*UN regulation : The special provision S<br>group III). It means that antimony sulfid<br>total weight, are not subject to these regu<br><b>15.REGULATORY INFORMATION</b><br>Worldwide chemical inventories:                              | Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>SP45 is applicable to the UN number 1549 (Hazard class6.1 and packaging<br>es and oxides, which contain not more than 0.5% of arsenic calculated on the<br>ilations.  |  |  |  |  |
| UN code<br>Proper shipping name<br>UN Class<br>Packing group<br>Marine pollutant<br>*UN regulation : The special provision S<br>group III). It means that antimony sulfid<br>total weight, are not subject to these regu<br><b>15.REGULATORY INFORMATION</b>   | Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>SP45 is applicable to the UN number 1549 (Hazard class6.1 and packaging<br>es and oxides, which contain not more than 0.5% of arsenic calculated on the<br>llations.  |  |  |  |  |
| UN code<br>Proper shipping name<br>UN Class<br>Packing group<br>Marine pollutant<br>*UN regulation : The special provision S<br>group III). It means that antimony sulfide<br>total weight, are not subject to these regu<br><b>15.REGULATORY INFORMATION</b><br>Worldwide chemical inventories:<br>ENCS(Japan)              | Not applicable.         Not applicable.         Not applicable.         SP45 is applicable to the UN number 1549 (Hazard class6.1 and packaging es and oxides, which contain not more than 0.5% of arsenic calculated on the llations.         1-543  |  |  |  |  |
| UN code<br>Proper shipping name<br>UN Class<br>Packing group<br>Marine pollutant<br>*UN regulation : The special provision S<br>group III). It means that antimony sulfide<br>total weight, are not subject to these regu<br><b>15.REGULATORY INFORMATION</b><br>Worldwide chemical inventories:<br>ENCS(Japan)<br>TSCA(USA) | Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable.<br>SP45 is applicable to the UN number 1549 (Hazard class6.1 and packaging<br>es and oxides, which contain not more than 0.5% of arsenic calculated on the<br>llations.  |  |  |  |  |

Antimony Trioxide Issue No: Q0725-09 Issue Date: March 25, 2022 Page 5 of 6

| AICS(Australia)               | Listed  |  |  |  |  |  |
|-------------------------------|---|--|--|--|--|--|
| IECSC(China)                  | Listed  |  |  |  |  |  |
| Other regulatory information: | Follow regulation and low of each country or region.  |  |  |  |  |  |
| 16. OTHER INFORMATION         |   |  |  |  |  |  |
| Treatment of stated contents: | The contents of this information sheet are based on the data,<br>information available at moments, and may be revised by additional<br>data coming up in future.<br>The precautions mentioned in this sheet are intended for normal use<br>of this material, when use in unusual manner, the proper safety<br>method is required.<br>Read this SDS before use the ingredients.<br>Keep this SDS in your file for your timely reference. The contents<br>of this information sheet are not warranted and the company can<br>accept no liability to any customer or any other person.   |  |  |  |  |  |
| References:                   | <ul> <li>accept no liability to any customer or any other person.</li> <li>1.GHS taiou guideline</li> <li>Edit: Japan Chemical Industry Association</li> <li>Issuance: Japanese Standards Association</li> <li>2.Antimony Trioxide SDS form of International Antimony Association (i2a)</li> <li>3 [Kaiteidai3ban] Kinkyujioukyusochishishin</li> <li>Issuance: Japanese Standards Association</li> <li>4.National Institute of Technology and Evaluation (NITE)_</li> <li>Chemical Risk Information Platform (CHRIP)_ Antimony</li> <li>5.OECD-SIAM(October 14-16. 2012)SIDS Initial Assessment Profile</li> <li>6.National Institute of Technology and Evaluation (NITE)_</li> <li>Chemical Risk Information Platform (CHRIP)_ Antimony</li> <li>5.OECD-SIAM(October 14-16. 2012)SIDS Initial Assessment Profile</li> <li>6.National Institute of Technology and Evaluation (NITE)_</li> <li>Chemical Risk Information Platform (CHRIP)_ Antimony Trioxide</li> <li>7.Saishin dokugekibutsutoriatsukainotebiki</li> <li>jijitsuushinnsya, kouseisyou yakumukyoku anzenka hen</li> <li>8.Shokubanoanzen site: GHS taiou model label • model MSDS</li> <li>Jouhou: Antimony(III) oxide</li> <li>Ministry of Health, Labour and Welfare (Japan)</li> </ul> |  |  |  |  |  |

Each  $Sb_2O_3$  grades of purity and impurity content. (unit : %)

|                                | PATOX-  |      |                     |         |      |      |       |           |        |       |
|--------------------------------|---------|------|---------------------|---------|------|------|-------|-----------|--------|-------|
| Item                           | C<br>CZ | CE   | M<br>MF<br>MZ<br>MK | K<br>KF | KS   | U    | Н     | HS<br>HSS | P<br>L | CF    |
| Sb <sub>2</sub> O <sub>3</sub> | 99.8    | 99.7 | 99.6                | 99.6    | 99.6 | 99.8 | 99.9  | 99.8      | 99.7   | 99.9  |
| As                             | 0.03    | 0.04 | 0.05                | 0.05    | 0.05 | 0.01 | 0.01  | 0.02      | 0.03   | 0.01  |
| Pb                             | 0.003   | 0.03 | 0.05                | 0.06    | 0.03 | 0.01 | 0.002 | 0.001     | 0.04   | 0.009 |

Antimony Trioxide Issue No: Q0725-09 Issue Date: March 25, 2022 Page 6 of 6