

## SAFETY DATA SHEET

REF. No. AA9972593-1019-E004

## 1. CHEMICAL PRODUCT IDENTIFICATION AND COMPANY IDENTIFICATION

## 【CHEMICAL PRODUCT IDENTIFICATION】

TRADE NAME : ENAMEL SPRAY SPACE ACE FOUR STAR KITO Yellow  
 PRODUCT CLASS : Phthalic resin paint (Aerosol)  
 Use : Metal Top coat

## 【COMPANY IDENTIFICATION】

NAME OF MANUFACTURER : Shinto Family Co., Ltd.  
 ADDRESS : 16-7, Minamiohtsuka 2-Chome, Toshima-ku, Tokyo (170-0005), Japan  
 SECTION TO DRAW : Development Department PERSON IN CHARGE OF DRAWING : Yoshio TAJIMA  
 TELEPHONE NUMBER : 81-3-5976-4911 FAX NUMBER : 81-3-5976-4920  
 ISSUE MANAGEMENT SECTION : Development Department PERSON IN CHARGE OF MANAGEMENT : General Manager  
 TELEPHONE NUMBER : 81-3-5976-4911 DATE : 2015/08/18

## 2. HAZARD IDENTIFICATION

## 【GHS CLASSIFICATION】

FLAMMABLE AEROSOLS : Hazard Category 1  
 FLAMMABLE LIQUIDS : Hazard Category 3  
 FLAMMABLE SOLIDS : Not Classified  
 SUBSTANCES AND MIXTURES WHICH, IN CONTACT WITH WATER, EMIT FLAMMABLE GASES : Not Classified  
 ORGANIC PEROXIDES : Not Classified  
 CORROSIVE TO METALS : Not Classified  
 ACUTE TOXICITY ORAL : Classification not possible  
 SKIN : Classification not possible  
 INHALATION (GAS) : The classification is off the subject  
 INHALATION (STEAM) : The classification is off the subject  
 INHALATION (DUST · MIST) : Classification not possible  
 SKIN CORROSION/IRRITATION : Hazard Category 2  
 SERIOUS EYE DAMAGE / EYE IRRITATION : Hazard Category 2  
 RESPIRATORY SENSITIZATION : Classification not possible  
 SKIN SENSITIZATION : Classification not possible  
 GERM CELL MUTAGENICITY : Classification not possible  
 CARCINOGENICITY : Hazard Category 2  
 REPRODUCTIVE TOXICITY : Hazard Category 1  
 SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY SINGLE EXPOSURE : Hazard Category 1 (Respiratory organ, Liver, Central nervous system, Kidney) Hazard Category 3 (Anesthetizing action, Airway stimulation)  
 SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY REPEATED EXPOSURE : Hazard Category 1 (Respiratory organ, Nervous system) Hazard Category 2 (Liver, Testicle)  
 ASPIRATION HAZARD : Classification not possible  
 HAZARDOUS TO THE AQUATIC ENVIRONMENT (ACUTE) : Hazard Category 2  
 HAZARDOUS TO THE AQUATIC ENVIRONMENT (LONG-TERM) : Hazard Category 2  
 HAZARDOUS TO THE OZONE LAYER : Classification not possible

## 【GHS LABEL Element】

[SYMBOL]



[SIGNAL WORD]

Danger

[HAZARD STATEMENT]

- Extremely flammable aerosol
- Flammable liquid and vapor

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- Causes skin irritation
- Causes serious eye irritation
- Suspected of causing cancer
- May damage fertility or the unborn child
- Causes damage to organs
- May cause respiratory irritation ; or May cause drowsiness or dizziness
- Causes damage to organs through prolonged or repeated exposure
- May causes damage to organs through prolonged or repeated exposure
- Toxic to aquatic life
- Toxic to aquatic life with long lasting effects
- Pressurized container : may burst if heated

## [PRECAUTIONARY STATEMENTS]

## 《PREVENTION》

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Do not spray on an open flame or other ignition source.
- Keep container tightly closed.
- Ground and bond container and receiving equipment.
- Take action to prevent static discharges.
- Use explosion-proof electrical/ventilating/lighting equipment.
- Use non-sparking tools.
- Do not pierce or burn, even after use.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Do not eat, drink or smoke when using this product.
- Wash thoroughly after handling.
- Wear protective gloves/protective clothing/eye protection/face protection.

## 《RESPONSE》

- IF INHALED : Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
- IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists : Get medical advice/attention.
- IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water or shower.
- IF ON SKIN : Wash with plenty of soap and water.
- If skin irritation occurs, get medical advice/attention.
- Take off contaminated clothing and wash it before reuse.
- IF exposed or concerned : Call a POISON CENTER/doctor.
- IF exposed or concerned : Get medical advice/attention.
- Get medical advice/attention if you feel unwell.
- In case of fire, use suitable equipment for extinction, if water increases risk.
- Collect spillage.

## 《STORAGE》

- Protect from sunlight. Do not expose to temperatures exceeding 40°C/104°.
- Store in a well-ventilated place. Keep cool.
- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.

## 《DISPOSAL》

- Disposal of contents/container must be done in compliance with local, state or federal laws and regulations

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	CAS No.	PERCENT
n-butane (Flammable Gas)	106-97-8	25~30%
white spirit	8052-41-3	10~15%
xylene, mixed isomers, pure	1330-20-7	10~15%
isobutane (Flammable Gas)	75-28-5	5~10%
ethylbenzene	100-41-4	5~10%
titanium dioxide	13463-67-7	1~5%
methanol	67-56-1	0.1~1%

## 4. FIRST-AID MEASURES

## [EYE CONTACT]

- Gently rinse the affected eyes with clean water for at least 15 minutes as soon as possible. Rinse well the eyes up to the back of eye-lids.
- Seek medical advice immediately.

## [SKIN CONTACT]

- Wipe off contacted materials from skin quickly with clean cloth.
- Wash the affected areas under running water using a mild soap. Do not use organic solvents to wash.
- If there is any change on skin appearance and/or any pain, seek medical advice immediately.

## [INHALATION]

- Remove the victim from the contamination immediately to fresh air zone and keep the victim warm and quiet. If Breathing is weak, irregular or has stopped, open his airway, loosen his collar and belt and administer artificial respiration. Should not let vomit swallowed up. Seek medical advice immediately.
- Show this SDS or the labels on container, as medical examination.

## [INGESTION]

- Keep the victim quiet and seek medical advice immediately, as drink the substances.
- Should not let vomit swallowed up.

## 5. FIRE-FIGHTING MEASURES

## [EXTINGUISHING MEDIA]

WATER [—]    CARBON DIOXIDE [○]    BUBBLE [○]    POWDER [○]    DRY SAND [○]

## [EXTINCTION METHOD]

- Firefighters should wear proper protective equipment (heat resistive clothes).
- Move flammable substance from fire areas, if it can be done without risk.
- Use the fire extinguisher specified.
- Do not use water for extinguishment.
- Closed container exposed to high temperature should be kept cold by watering.
- Fight the fire from the windward.
- Keep distance from the fire to fight because the container may explode by heating.

## 6. ACCIDENTAL RELEASE MEASURES

- Wear proper protective equipment (Gloves, Gas mask with an organic vapor canister, Apron, Safety goggles and etc.)
- Place spills in a chemical waste container and move to safety areas.
- Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations.
- Remove all sources of ignition, high temperature equipments or flammable substances quickly, if it can be done without risk.
- Prepare proper extinguisher for protection to sudden ignition.
- Use reduced-sparking tools and instruments.
- Absorb spills with inert material (e.g., dry sand or earth). For large spills, dike for later disposal.
- Prevent spills from entering rivers, sewers, watercourses or low areas.
- Take care of handling because shaking the cylinder may cause contents to spout out.

## 7. HANDLING &amp; STORAGE

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## [HANDLING]

- Use only in the well-ventilated areas.
- Forbid using spark and high temperature object.
- Equipments should be grounded and bonded to prevent build-up of electrostatic charges. Use explosion proof electrical (ventilating and lighting) equipment.
- Use reduced-sparking hand tools.
- Immerse used cloth and paper, paint scum or etc. into the water until disposal.
- Use proper protective equipments to avoid contact with skin, eyes or clothing.
- Wash hand and face well after handling this material. Do not bring contaminated protective equipment to a resting room etc.
- The confined work place should be well-ventilated.
- Don't warm over 40°C.
- Don't use in the place with possible source of ignition or over 40°C.
- Don't use continuously over 30 seconds.

## [STORAGE]

- Protect from direct sunlight.
- Keep container in a well-ventilated location place.
- Keep away from all possible source of ignition.
- Keep at the temperature not exceeding 40°C.
- To avoid the corrosion of vessel and burst, keep away from water or moisture.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

## [CONTROL PARAMETERS OF INGREDIENT]

CHEMICAL NAME	CONTROL CONCENTRATION	ACGIH	IARC	OTHERS
n-butane (Flammable Gas)		1000ppm		
white spirit		100ppm		LD50 Oral 5000mg/kg
xylene, mixed isomers, pure	50ppm	100ppm	3	LD50 Oral 3500mg/kg
isobutane (Flammable Gas)		1000ppm		
ethylbenzene	20ppm	10ppm	2B	LD50 Oral 3500mg/kg
titanium dioxide			2B	LD50 Oral 20000mg/kg
methanol	200ppm	200ppm		LD50 Oral 1400mg/kg

(Attention: An empty column is information or means no correspondence.)

## [ENGINEERING MEASURES]

- Use explosion proof electrical equipments.
- Use exhaust ventilation to keep airborne concentrations below exposure limits.
- Equipments (e.g. truck, pump and stirrer) should be grounded and bonded.
- Do not install all possible source of ignition by the operation area.
- In confined working places, use automatic sprayers or insulate facility where workers have no direct contact or can be protected from explosion and exposure by ventilation.
- In confined working areas like tank inside, install device to ventilate the confined areas especially at the bottom.
- Use in the well-ventilated areas.

## [PERSONAL PROTECTIVE EQUIPMENT]

## 《RESPIRATORY PROTECTION》

- Wear chemical cartridge respirator with an organic vapor cartridges.
- Use airline respirator at the confined working place.
- Use proper protective equipment.

## 《EYE PROTECTION》

- Use proper protective equipment for eyes.

## 《HAND, SKIN AND BODY PROTECTION》

- To prevent any contact, wear impervious clothing such as plover, apron, boots or whole body suits made from neoprene, as appropriate.

## 《OTHER PROTECTION》

- No Information

## 9. PHYSICAL &amp; CHEMICAL PROPERTIES

APPEARANCE : Liquid

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COLOR	: Yellow
BOILING POINT/RANGE	: 130°C~138°C
DENSITY	: 1.03
ODOR	: solvent odor
VAPOR PRESSURE	: 1400Pa (20°C)
pH	: No
OTHER	: Inflammable gases evaporate immediately under atmospheric pressure.

## 10. STABILITY AND REACTIVITY

FLASH POINT	: (Paint liquid) 34°C (Spraying materials)-104°C
AUTO IGNITION TEMPERATURE	: 288°C
EXPLOSIVITY LIMITS	: (LOWER) 0.6 % (UPPER) 8 %

## [KEEPING HANDLING CONDITION (TEMPERATURE · LIGHT)]

- This material is considered a stable material under normal and anticipated storage and handling conditions.
- Be stored below 40°C

## [INCOMPATIBLE MATERIALS]

- No information available.

## [HAZARDOUS DECOMPOSITION PRODUCTS WHEN BURNED]

- Decomposition products: Toxic fumes of carbon monoxide, carbon dioxide and nitrogen oxides.

## [HAZARDOUS DECOMPOSITION PRODUCTS WHEN HEATED]

- Not applicable.

## [OTHER HAZARDOUS INFORMATION]

- Heat may generate and accumulate in paint residues or paint-stuck rags.
- The vessel may burst when heated to about 80°C.

## 11. TOXICOLOGICAL INFORMATION

## [HARMFUL INFORMATION]

ACUTE TOXICITY	ORAL	: No
	SKIN	: No
	INHALATION (DUST · MIST)	: No
SKIN CORROSION/IRRITATION		: Yes white spirit (Hazard Category 2)、xylene, mixed isomers, pure (Hazard Category 2)
SERIOUS EYE DAMAGE /EYE IRRITATION		: Yes xylene, mixed isomers, pure (Hazard Category 2)
RESPIRATORY SENSITIZATION		: No
SKIN SENSITIZATION		: No
GERM CELL MUTAGENICITY		: No
CARCINOGENICITY		: Yes ethylbenzene (Hazard Category 2)
REPRODUCTIVE TOXICITY		: Yes xylene, mixed isomers, pure (Hazard Category 1)、ethylbenzene (Hazard Category 1)
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY SINGLE EXPOSURE		: Yes xylene, mixed isomers, pure (Hazard Category 1)、n-butane (Flammable Gas) (Hazard Category 3)、white spirit (Hazard Category 3)、xylene, mixed isomers, pure (Hazard Category 3)、isobutane (Flammable Gas) (Hazard Category 3)、ethylbenzene (Hazard Category 3)、methanol (Hazard Category 3)
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY REPEATED EXPOSURE		: Yes xylene, mixed isomers, pure (Hazard Category 1)、white spirit (Hazard Category 2)
ASPIRATION HAZARD		: No

## [COMPOSITION]

- Take care that Xylene is stimulus to the eyes.
- Continuous contact with spraying materials may cause frostbite or inflammation.

## [PRODUCT]

- Product safety test is not carried out.

## 12. ECOLOGICAL INFORMATION

## [GENERAL NOTES]

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- Handle with care because the spill or disposal of product posing effects on environment.

**[HAZARDOUS TO THE AQUATIC ENVIRONMENT (ACUTE)]**

- white spirit (Hazard Category 2)、xylene, mixed isomers, pure (Hazard Category 2)、ethylbenzene (Hazard Category 2)

**[HAZARDOUS TO THE AQUATIC ENVIRONMENT (LONG-TERM)]**

- white spirit (Hazard Category 2)、xylene, mixed isomers, pure (Hazard Category 2)

**[HAZARDOUS TO ECOLOGY]**

- No Information

**[PERSISTENCE AND DEGRADABILITY]**

- No Information

**[BIOACCUMULATIVE POTENTIAL]**

- No Information

**[MOBILITY IN SOIL]**

- No Information

**[HAZARDOUS TO THE OZONE LAYER]**

- No Information
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**13. DISPOSAL CONSIDERATIONS**

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- Any disposal practice must be in compliance with local, state or federal laws.
  - Do not dump into sewers, on the ground or into any water.
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**14. TRANSPORT INFORMATION**

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Any transportation practice must be in compliance with local, state or federal laws and regulations. (Contact local or environmental agency for specific rules.)

- UN No. : 1950
  - Class : 2
  - Name and description : AEROSOLS (Combustion)
  - Packing group : It doesn't correspond.
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**15. REGULATORY INFORMATION**

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Regulatory information with regard to this substance in your country or in your region should be examined by your own responsibility.

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**16. OTHER INFORMATION****[REFERENCE]**

- Material Data Base for SDS (Paints) (edited by Japan Paint Manufacturers Society)
- Handbook for Solvents (KODANSHA)
- Handbook for Industrial Poisoning (ISHIYAKUSHUPPAN)
- Chemical Products (published by Kagaku Kogyo Nipposha)

**[REMARK]**

- To the best of our knowledge, the information herein is given in good faith, but no warranty, expressed or implied, is made.
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