

SAFETY DATA SHEET

21159-XXXX

| | | | | | |
|---------------------|----------|----------------------|----------|------------------------|---|
| Issuing Date | 6/1/2017 | Revision Date | 6/1/2017 | Revision Number | 2 |
|---------------------|----------|----------------------|----------|------------------------|---|

1. IDENTIFICATION

| | |
|--|--|
| Product Identifier | |
| Product Name | KY2, KY6, KY12, KY60 |
| Other means of identification | |
| Synonyms | NONE |
| Recommended use of the chemical and restrictions on use | |
| Recommended use | Artistic Medium |
| Uses advised against | |
| Details of the supplier of the safety data sheet | |
| Supplier Name | Yasutomo Inc. |
| Supplier Address | 1805 Rollins Road Burlingame, CA 94010 |
| Supplier Phone Number | 650 737 8888 |
| Supplier Email | yasutomo490@gmail.com |
| Emergency telephone number | 650 737 8888 |

2. HAZARDS IDENTIFICATION**Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| | |
|-----------------|-------------|
| Carcinogenicity | Category 1A |
|-----------------|-------------|

GHS Label elements, including precautionary statements**Emergency Overview**

| | | | |
|---|-------------------------|-----------------------|-------|
| Signal word | Danger | | |
| Hazard Statements | May cause cancer | | |
|  | | | |
| Appearance | Black Powder or Pellets | Physical State | Solid |
| | | Odor | None |

Precautionary Statements - Prevention

Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazard not otherwise classified (HNOC)

NA

Unknown Toxicity

None

Other information

No information available

Interactions with Other Chemicals

Use of alcoholic beverages may enhance toxic effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No | Weight-% | Trade Secret |
|---------------|-----------|----------|--------------|
| Carbon Black | 1333-86-4 | >99% | * |

* The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES**First aid measures**

Eye Contact Rinse thoroughly with plenty of water. If symptoms persist, call a physician.

Skin Contact Wash with soap and water.

Inhalation Remove to fresh air.

Ingestion Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting.

Most Important symptoms and effects, both acute and delayed

Most Important symptoms and effects No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

Specific Hazards Arising from the Chemical

It may not be obvious that carbon black is burning unless the material is stirred and sparks are apparent.

Hazardous Combustion Products

Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge No.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal precautions Avoid contact with eyes. Wet carbon black produces slippery walking surfaces.

Other information Refer to protective measures listed in Sections 7 and 8

Environmental Precautions

Environmental Precautions Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Clean up promptly by vacuum. HEPA filtration is recommended.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not breathe dust. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed in a cool, dry, well-ventilated area.

Incompatible products Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---------------------------|---------------------------------|--|--|
| Carbon Black 1333-86-4 | TWA: 3 mg/m3 inhalable fraction | TWA: 3.5 mg/m3 (vacated) TWA: 3.5 mg/m3 | IDLH: 1750 mg/m3 TWA: 3.5 mg/m3 TWA: 0.1 mg/m3 Carbon black in presence of Polycyclic aromatic |

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters

Appropriate engineering controls

Engineering Measures Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with shields. Goggles.

Skin and Body Protection Wear protective gloves and protective clothing.

Respiratory Protection Wear Air-Purifying Respirator if exposure exceeds occupational exposure limits. Respirators should be NIOSH/OSHA approved.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid

Appearance Black Powder or Pellets

Color No information available

Odor None

Odor Threshold NA

Property

Values

Remarks Method

| | | |
|--------------------------------------|-------------------|------------|
| pH | No data available | None known |
| Melting/Freezing point | No data available | None known |
| Boiling point / boiling range | No data available | None known |
| Flash Point | No data available | None known |
| Evaporation Rate | No data available | None known |
| Flammability (solid, gas) | No data available | None known |
| Flammability Limit in Air | | |
| Upper flammability limit | No data available | |
| Lower flammability limit | No data available | |
| Vapor pressure | No data available | None known |

| | | |
|-------------------------------------|-------------------|------------|
| Vapor density | No data available | None known |
| Specific Gravity | No data available | None known |
| Water Solubility | Insoluble | None known |
| Solubility in other solvents | No data available | None known |
| Partition coefficient: | No data available | None known |
| Autoignition temperature | >140 C | None known |
| Decomposition temperature | No data available | None known |
| Kinematic viscosity | No data available | None known |
| Dynamic viscosity | No data available | None known |
| Explosive properties | No data available | |
| Oxidizing Properties | No data available | |

Other Information

| | |
|-----------------------------------|-------------------|
| Softening Point | No data available |
| VOC Content (%) | No data available |
| Particle Size | No data available |
| Particle Size Distribution | |

10. STABILITY AND REACTIVITY**Reactivity**

May react exothermically upon contact with strong oxidizers.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Do not expose to temperatures above 300 C. Keep away from oxidizing agents.

Incompatible materials

Strong Oxidizers such as chlorates, bromates, and nitrates.

Hazardous Decomposition Products

Carbon oxides.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information**

| | |
|---------------------|---|
| Inhalation | Specific test data for the substance or mixture is not available. |
| Eye Contact | Specific test data for the substance or mixture is not available. |
| Skin Contact | Specific test data for the substance or mixture is not available. |
| Ingestion | Specific test data for the substance or mixture is not available. |

Component Information

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------------------|--------------------|-------------|-----------------|
| Carbon Black 1333-86-4 | > 8000 mg/kg (Rat) | — | — |

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---------------------------|-------|----------|-----|------|
| Carbon Black 1333-86-4 | A3 | Group 2B | | X |

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Dept of Labor)

X - Present

Reproductive Toxicity

No information available

STOT - single exposure

No information available

STOT - repeated exposure

No information available

Chronic Toxicity

Contains a known or suspected carcinogen. May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects.

Target Organ Effects

Respiratory system. Eyes. Skin. Gastrointestinal tract (GI). Bladder. Blood. Central Nervous System (CNS). Kidney. Liver. Lungs. Lymphatic

Aspiration Hazard

No information available

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)

NA

ATEmix (inhalation-dust/mist)

NA

ATEmix (inhalation-vapor)

NA

12. ECOLOGICAL INFORMATION**Ecotoxicity**

The environmental impact of this product has not been fully investigated

| Chemical Name | Toxicity to Algae | Toxicity to Fish | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|---------------------------|--|---|----------------------------|----------------------------|
| Carbon Black 1333-86-4 | EC50:>10000 mg/L 72h (Scenedesmus subspicatus) | LC50: >1000 mg/L 96 hr (Brachydanio Rerio) | | 24h EC50: >5600 mg/L |

Persistence and Degradability

Not expected to degrade

Bioaccumulation

Not expected due to physicochemical properties of the substance

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Disposal methods**

Dispose of contents/containers in accordance with local regulations.

Contaminated Packaging

Do not reuse empty containers.

14. TRANSPORT INFORMATION

| | |
|-----------------|---------------|
| DOT | Not Regulated |
| TDG | Not Regulated |
| MEX | Not Regulated |
| ICAO | Not Regulated |
| IATA | Not Regulated |
| IMDG/IMO | Not Regulated |
| RID | Not Regulated |
| ADR | Not Regulated |
| AND | Not Regulated |

15. REGULATORY INFORMATION

International Inventories

| | |
|------|---|
| TSCA | Complies |
| DSL | All components are listed either on the DSL or NDSL |

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to release of this material.

US State Regulations

U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania | Rhode Island | Illinois |
|---------------------------|------------|---------------|--------------|--------------|----------|
| Carbon Black 1333-86-4 | X | X | X | | X |

International Regulations

Mexico

National Occupational exposure limits

| Component | Carcinogen Status | Exposure Limits |
|---------------------------------|-------------------|---|
| Carbon Black 1333-86-4 (1-5) | | Mexico: TWA = 3.5 mg/m3 Mexico: STEL - 7 mg/m3 |

Mexico - Occupational Exposure Limits - Carcinogens

16. OTHER INFORMATION

| | | | | | | | |
|-------------|-----------------------|-----------|---------------------|----------|------------------------|----------|--|
| NFPA | Health Hazards | 1 | Flammability | 0 | Instability | 0 | Physical and Chemical Hazards - Personal Protection |
| HMIS | Health Hazards | 1* | Flammability | 0 | Physical Hazard | 0 | |

Chronic Hazard Star Legend * = Chronic Health Hazard

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet