



SAFETY DATA SHEET

1. Identification

Product identifier 2K PRIMER SURFACE-GREY

Other means of identification

Product Code AD-31201-G

Recommended use Automotive Refinish Primer

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name ADVANTAGE REFINISH PRODUCTS

Address a division of IAMG/International Autobody Marketing Group
1505 N. Hayden Road
Suite 111
Scottsdale, Arizona 85257
United States

Telephone General Assistance 1-87-REFINISH

Website www.advantagerefinish.com

E-mail Not available.

Emergency phone number Chemtrec 1-800-424-9300

2. Hazard(s) identification

Physical hazards Flammable liquids Category 2

Health hazards Acute toxicity, inhalation Category 4
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Carcinogenicity Category 1A
Reproductive toxicity (the unborn child) Category 2
Specific target organ toxicity, single exposure Category 3 narcotic effects
Specific target organ toxicity, repeated exposure Category 1

Environmental hazards Hazardous to the aquatic environment, acute hazard Category 2
Hazardous to the aquatic environment, long-term hazard Category 3

OSHA defined hazards Not classified.

Label elements



Signal word

Danger

Hazard statement

Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause drowsiness or dizziness. May cause cancer. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

Supplemental information

82.2% of the mixture consists of component(s) of unknown acute inhalation toxicity. 77.75% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 77.75% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|------------------------------------------|--------------------------|------------|-----------|
| Isobutyl acetate | | 110-19-0 | 10 to <20 |
| Kaolin | | 1332-58-7 | 10 to <20 |
| Titanium dioxide | | 13463-67-7 | 10 to <20 |
| Xylene | | 1330-20-7 | 10 to <20 |
| Calcium carbonate | | 1317-65-3 | 5 to <10 |
| Talc | | 14807-96-6 | 5 to <10 |
| 2-butanone | | 78-93-3 | 1 to <5 |
| Ethyl benzene | | 100-41-4 | 1 to <5 |
| Toluene | | 108-88-3 | 1 to <5 |
| 1,2-Dimethylbenzene | | 95-47-6 | 0.1 to <1 |
| Carbon Black | | 1333-86-4 | 0.1 to <1 |
| Cumene | | 98-82-8 | 0.1 to <1 |
| Silicon dioxide | | 14808-60-7 | 0.1 to <1 |
| Styrene, monomer | | 100-42-5 | 0.1 to <1 |
| Other components below reportable levels | | | 20 to <30 |

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

| | |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Most important symptoms/effects, acute and delayed | May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects. |
| Indication of immediate medical attention and special treatment needed | Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed. |
| General information | Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. |

5. Fire-fighting measures

| | |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media | Alcohol resistant foam. Water fog. Carbon dioxide (CO ₂). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| Specific hazards arising from the chemical | Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed. |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Fire fighting equipment/instructions | In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. |
| General fire hazards | Highly flammable liquid and vapor. |

6. Accidental release measures

| | |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
| Methods and materials for containment and cleaning up | Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Following product recovery, flush area with water. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. |
| Environmental precautions | Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases. Use appropriate containment to avoid environmental contamination. |

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components | Type | Value | Form |
|-----------------------------------|------|----------------------------------|----------------------|
| 1,2-Dimethybenzene (CAS 95-47-6) | PEL | 435 mg/m3 | |
| 2-butanone (CAS 78-93-3) | PEL | 100 ppm 590 mg/m3 | |
| Calcium carbonate (CAS 1317-65-3) | PEL | 200 ppm 5 mg/m3 | Respirable fraction. |
| Carbon Black (CAS 1333-86-4) | PEL | 15 mg/m3 3.5 mg/m3 | Total dust. |
| Cumene (CAS 98-82-8) | PEL | 245 mg/m3 50 ppm | |
| Ethyl benzene (CAS 100-41-4) | PEL | 435 mg/m3 | |
| Isobutyl acetate (CAS 110-19-0) | PEL | 100 ppm 700 mg/m3 | |
| Kaolin (CAS 1332-58-7) | PEL | 150 ppm 5 mg/m3 | Respirable fraction. |
| Titanium dioxide (CAS 13463-67-7) | PEL | 15 mg/m3 | Total dust. |
| Xylene (CAS 1330-20-7) | PEL | 15 mg/m3 435 mg/m3 100 ppm | Total dust. |

US. OSHA Table Z-2 (29 CFR 1910.1000)

| Components | Type | Value |
|---------------------------------|---------|---------|
| Styrene, monomer (CAS 100-42-5) | Ceiling | 200 ppm |
| | TWA | 100 ppm |

US. OSHA Table Z-2 (29 CFR 1910.1000)

| Components | Type | Value |
|------------------------|---------|---------|
| Toluene (CAS 108-88-3) | Ceiling | 300 ppm |
| | TWA | 200 ppm |

US. OSHA Table Z-3 (29 CFR 1910.1000)

| Components | Type | Value | Form |
|----------------------------------|------|-----------|-------------|
| Silicon dioxide (CAS 14808-60-7) | TWA | 0.3 mg/m3 | Total dust. |
| | | 0.1 mg/m3 | Respirable. |
| | | 2.4 mppcf | Respirable. |
| Talc (CAS 14807-96-6) | TWA | 0.3 mg/m3 | Total dust. |
| | | 0.1 mg/m3 | Respirable. |
| | | 20 mppcf | |
| | | 2.4 mppcf | Respirable. |

US. ACGIH Threshold Limit Values

| Components | Type | Value | Form |
|-----------------------------------|------|-------------|----------------------|
| 1,2-Dimethybenzene (CAS 95-47-6) | STEL | 150 ppm | |
| | TWA | 100 ppm | |
| 2-butanone (CAS 78-93-3) | STEL | 300 ppm | |
| | TWA | 200 ppm | |
| Carbon Black (CAS 1333-86-4) | TWA | 3 mg/m3 | Inhalable fraction. |
| Cumene (CAS 98-82-8) | TWA | 50 ppm | |
| Ethyl benzene (CAS 100-41-4) | TWA | 20 ppm | |
| Isobutyl acetate (CAS 110-19-0) | TWA | 150 ppm | |
| Kaolin (CAS 1332-58-7) | TWA | 2 mg/m3 | Respirable fraction. |
| Silicon dioxide (CAS 14808-60-7) | TWA | 0.025 mg/m3 | Respirable fraction. |
| Styrene, monomer (CAS 100-42-5) | STEL | 40 ppm | |
| | TWA | 20 ppm | |
| Talc (CAS 14807-96-6) | TWA | 2 mg/m3 | Respirable fraction. |
| Titanium dioxide (CAS 13463-67-7) | TWA | 10 mg/m3 | |
| Toluene (CAS 108-88-3) | TWA | 20 ppm | |
| Xylene (CAS 1330-20-7) | STEL | 150 ppm | |
| | TWA | 100 ppm | |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value | Form |
|-----------------------------------|------|-----------|-------------|
| 1,2-Dimethybenzene (CAS 95-47-6) | STEL | 655 mg/m3 | |
| | | 150 ppm | |
| | TWA | 435 mg/m3 | |
| | | 100 ppm | |
| 2-butanone (CAS 78-93-3) | STEL | 885 mg/m3 | |
| | | 300 ppm | |
| | TWA | 590 mg/m3 | |
| | | 200 ppm | |
| Calcium carbonate (CAS 1317-65-3) | TWA | 5 mg/m3 | Respirable. |
| | | 10 mg/m3 | Total |
| Carbon Black (CAS 1333-86-4) | TWA | 0.1 mg/m3 | |
| Cumene (CAS 98-82-8) | TWA | 245 mg/m3 | |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value | Form |
|----------------------------------|------|------------|-------------|
| Ethyl benzene (CAS 100-41-4) | STEL | 50 ppm | |
| | | 545 mg/m3 | |
| | TWA | 125 ppm | |
| | | 435 mg/m3 | |
| Isobutyl acetate (CAS 110-19-0) | TWA | 100 ppm | |
| | | 700 mg/m3 | |
| Kaolin (CAS 1332-58-7) | TWA | 150 ppm | Respirable. |
| | | 5 mg/m3 | |
| Silicon dioxide (CAS 14808-60-7) | TWA | 10 mg/m3 | Total |
| | | 0.05 mg/m3 | |
| Styrene, monomer (CAS 100-42-5) | STEL | 425 mg/m3 | |
| | | | |
| | TWA | 100 ppm | |
| | | 215 mg/m3 | |
| Talc (CAS 14807-96-6) | TWA | 50 ppm | Respirable. |
| | | 2 mg/m3 | |
| Toluene (CAS 108-88-3) | STEL | 560 mg/m3 | |
| | | 150 ppm | |
| | TWA | 375 mg/m3 | |
| | | 100 ppm | |

Biological limit values
ACGIH Biological Exposure Indices

| Components | Value | Determinant | Specimen | Sampling Time |
|-----------------------------------|-----------|-----------------------------------------------|---------------------|---------------|
| 1,2-Dimethylbenzene (CAS 95-47-6) | 1.5 g/g | Methylhippuric acids | Creatinine in urine | * |
| 2-butanone (CAS 78-93-3) | 2 mg/l | MEK | Urine | * |
| Ethyl benzene (CAS 100-41-4) | 0.15 g/g | Sum of mandelic acid and phenylglyoxylic acid | Creatinine in urine | * |
| Styrene, monomer (CAS 100-42-5) | 400 mg/g | Mandelic acid plus phenylglyoxylic acid | Creatinine in urine | * |
| | 0.2 mg/l | Styrene | Venous blood | * |
| Toluene (CAS 108-88-3) | 0.3 mg/g | o-Cresol, with hydrolysis | Creatinine in urine | * |
| | 0.03 mg/l | Toluene | Urine | * |
| | 0.02 mg/l | Toluene | Blood | * |
| Xylene (CAS 1330-20-7) | 1.5 g/g | Methylhippuric acids | Creatinine in urine | * |

* - For sampling details, please see the source document.

Exposure guidelines
US - California OELs: Skin designation

| | |
|---------------------------------|-----------------------------------|
| Cumene (CAS 98-82-8) | Can be absorbed through the skin. |
| Styrene, monomer (CAS 100-42-5) | Can be absorbed through the skin. |
| Toluene (CAS 108-88-3) | Can be absorbed through the skin. |

US - Minnesota Haz Subs: Skin designation applies

| | |
|---------------------------------|---------------------------|
| Cumene (CAS 98-82-8) | Skin designation applies. |
| Styrene, monomer (CAS 100-42-5) | Skin designation applies. |
| Toluene (CAS 108-88-3) | Skin designation applies. |

US - Tennessee OELs: Skin designation

| | |
|----------------------|-----------------------------------|
| Cumene (CAS 98-82-8) | Can be absorbed through the skin. |
|----------------------|-----------------------------------|

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Cumene (CAS 98-82-8)

Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Cumene (CAS 98-82-8)

Can be absorbed through the skin.

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other

Wear appropriate chemical resistant clothing.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state

Liquid.

Form

Liquid.

Color

Grey Opaque.

Odor

Solvent.

Odor threshold

Not available.

pH

Not available.

Melting point/freezing point

-145.84 °F (-98.8 °C) estimated

Initial boiling point and boiling range

241.7 °F (116.5 °C) estimated

Flash point

64.0 °F (17.8 °C) estimated

Evaporation rate

Not available.

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)

2.4 % estimated

Flammability limit - upper (%)

10.5 % estimated

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

1210.3 hPa estimated

Vapor density

Not available.

Relative density

Not available.

Solubility(ies)

Solubility (water)

Not available.

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature

793.4 °F (423 °C) estimated

Decomposition temperature

Not available.

| | |
|---------------------------|----------------------------------------------------------------------------------------|
| Viscosity | Not available. |
| Other information | |
| Density | 11.19 lb/gal |
| Flammability class | Flammable IB estimated |
| Percent volatile | 39.82 % |
| Specific gravity | 1.34 |
| VOC | 4.4 lb/gal Material 4.4 lb/gal Regulatory 530 g/l Material 530 g/l Regulatory |

10. Stability and reactivity

| | |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | Material is stable under normal conditions. |
| Possibility of hazardous reactions | Hazardous polymerization does not occur. |
| Conditions to avoid | Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| Incompatible materials | Strong acids. Strong oxidizing agents. Nitrates. Halogens. Fluorine. |
| Hazardous decomposition products | No hazardous decomposition products are known. |

11. Toxicological information

Information on likely routes of exposure

| | |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation | Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting. |
| Skin contact | Causes skin irritation. |
| Eye contact | Causes serious eye irritation. |
| Ingestion | Expected to be a low ingestion hazard. |
| Symptoms related to the physical, chemical and toxicological characteristics | Headache. May cause drowsiness and dizziness. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. |

Information on toxicological effects

| | |
|-----------------------|---------------------------------------|
| Acute toxicity | Harmful if inhaled. Narcotic effects. |
|-----------------------|---------------------------------------|

| Components | Species | Test Results |
|----------------------------------|---------|-----------------------|
| 1,2-Dimethybenzene (CAS 95-47-6) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 43 g/kg |
| Inhalation | | |
| LC50 | Mouse | 4600 ppm, 6 Hours |
| | Rat | 6350 ppm, 4 Hours |
| Oral | | |
| LD50 | Mouse | 1590 mg/kg |
| | Rat | 4300 mg/kg |
| 2-butanone (CAS 78-93-3) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 8000 mg/kg |
| Inhalation | | |
| LC50 | Mouse | 11000 ppm, 45 Minutes |
| | Rat | 11700 ppm, 4 Hours |

| Components | Species | Test Results |
|---------------------------------|---------|--------------------|
| Oral | | |
| LD50 | Mouse | 670 mg/kg |
| | Rat | 2300 - 3500 mg/kg |
| Carbon Black (CAS 1333-86-4) | | |
| <u>Acute</u> | | |
| Oral | | |
| LD50 | Rat | > 8000 mg/kg |
| Cumene (CAS 98-82-8) | | |
| <u>Acute</u> | | |
| Inhalation | | |
| LC50 | Mouse | 2000 ppm, 7 Hours |
| | | 24.7 mg/l, 2 Hours |
| | Rat | 8000 ppm, 4 Hours |
| Oral | | |
| LD50 | Rat | 1400 mg/kg |
| Ethyl benzene (CAS 100-41-4) | | |
| <u>Acute</u> | | |
| Dermal | | |
| LD50 | Rabbit | 17800 mg/kg |
| Oral | | |
| LD50 | Rat | 3500 mg/kg |
| Isobutyl acetate (CAS 110-19-0) | | |
| <u>Acute</u> | | |
| Oral | | |
| LD50 | Rabbit | 4.8 g/kg |
| Kaolin (CAS 1332-58-7) | | |
| <u>Acute</u> | | |
| Dermal | | |
| LD50 | Rat | > 5000 mg/kg |
| Oral | | |
| LD50 | Rat | > 5000 mg/kg |
| Styrene, monomer (CAS 100-42-5) | | |
| <u>Acute</u> | | |
| Inhalation | | |
| LC50 | Mouse | 4940 ppm, 2 Hours |
| | Rat | 2770 ppm, 4 Hours |
| | | 24 mg/l, 4 Hours |
| Oral | | |
| LD50 | Mouse | 316 mg/kg |
| | Rat | 1 g/kg |
| Toluene (CAS 108-88-3) | | |
| <u>Acute</u> | | |
| Dermal | | |
| LD50 | Rabbit | 12124 mg/kg |
| | | 14.1 ml/kg |
| Inhalation | | |
| LC50 | Mouse | 5320 ppm, 8 Hours |
| | | 400 ppm, 24 Hours |
| | Rat | 26700 ppm, 1 Hours |

| Components | Species | Test Results |
|------------------------|---------|--------------------|
| | | 12200 ppm, 2 Hours |
| | | 8000 ppm, 4 Hours |
| Oral | | |
| LD50 | Rat | 2.6 g/kg |
| Xylene (CAS 1330-20-7) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 43 g/kg |
| Inhalation | | |
| LC50 | Mouse | 3907 mg/l, 6 Hours |
| | Rat | 6350 mg/l, 4 Hours |
| Oral | | |
| LD50 | Mouse | 1590 mg/kg |
| | Rat | 3523 - 8600 mg/kg |

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

| | |
|-----------------------------------|-----------------------------------------------------|
| 1,2-Dimethylbenzene (CAS 95-47-6) | 3 Not classifiable as to carcinogenicity to humans. |
| Carbon Black (CAS 1333-86-4) | 2B Possibly carcinogenic to humans. |
| Cumene (CAS 98-82-8) | 2B Possibly carcinogenic to humans. |
| Ethyl benzene (CAS 100-41-4) | 2B Possibly carcinogenic to humans. |
| Silicon dioxide (CAS 14808-60-7) | 1 Carcinogenic to humans. |
| Styrene, monomer (CAS 100-42-5) | 2B Possibly carcinogenic to humans. |
| Titanium dioxide (CAS 13463-67-7) | 2B Possibly carcinogenic to humans. |
| Toluene (CAS 108-88-3) | 3 Not classifiable as to carcinogenicity to humans. |
| Xylene (CAS 1330-20-7) | 3 Not classifiable as to carcinogenicity to humans. |

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

| | |
|----------------------------------|--------------------------------------------------|
| Silicon dioxide (CAS 14808-60-7) | Known To Be Human Carcinogen. |
| Styrene, monomer (CAS 100-42-5) | Reasonably Anticipated to be a Human Carcinogen. |

Reproductive toxicity Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. Suspected of damaging the unborn child.

Specific target organ toxicity - single exposure May cause drowsiness and dizziness.

Specific target organ toxicity - repeated exposure Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard Not an aspiration hazard.

Chronic effects Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

| Components | | Species | Test Results |
|-----------------------------------|------|-----------------------------------------------------|------------------------------|
| 1,2-Dimethybenzene (CAS 95-47-6) | | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 0.78 - 2.51 mg/l, 48 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 5.59 - 11.6 mg/l, 96 hours |
| 2-butanone (CAS 78-93-3) | | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 4025 - 6440 mg/l, 48 hours |
| Fish | LC50 | Sheepshead minnow (Cyprinodon variegatus) | > 400 mg/l, 96 hours |
| Cumene (CAS 98-82-8) | | | |
| Aquatic | | | |
| Crustacea | EC50 | Brine shrimp (Artemia sp.) | 3.55 - 11.29 mg/l, 48 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 2.7 mg/l, 96 hours |
| Ethyl benzene (CAS 100-41-4) | | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 1.37 - 4.4 mg/l, 48 hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 7.5 - 11 mg/l, 96 hours |
| Styrene, monomer (CAS 100-42-5) | | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 3.3 - 7.4 mg/l, 48 hours |
| Fish | LC50 | Sheepshead minnow (Cyprinodon variegatus) | 5.1 - 16 mg/l, 96 hours |
| Titanium dioxide (CAS 13463-67-7) | | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | > 1000 mg/l, 48 hours |
| Fish | LC50 | Mummichog (Fundulus heteroclitus) | > 1000 mg/l, 96 hours |
| Toluene (CAS 108-88-3) | | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 5.46 - 9.83 mg/l, 48 hours |
| Fish | LC50 | Coho salmon,silver salmon (Oncorhynchus kisutch) | 8.11 mg/l, 96 hours |
| Xylene (CAS 1330-20-7) | | | |
| Aquatic | | | |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | 7.711 - 9.591 mg/l, 96 hours |

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

| | |
|--------------------|------------|
| 1,2-Dimethybenzene | 3.12 |
| 2-butanone | 0.29 |
| Cumene | 3.66 |
| Ethyl benzene | 3.15 |
| Isobutyl acetate | 1.78 |
| Styrene, monomer | 2.95 |
| Toluene | 2.73 |
| Xylene | 3.12 - 3.2 |

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

| | |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Disposal instructions | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Local disposal regulations | Dispose in accordance with all applicable regulations. |
| Hazardous waste code | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| Waste from residues / unused products | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| Contaminated packaging | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. |

14. Transport information

DOT

| | |
|-------------------------------------|-------------------------------------------------------------------------|
| UN number | UN1263 |
| UN proper shipping name | Paint, Paint Related Material |
| Transport hazard class(es) | |
| Class | 3 |
| Subsidiary risk | - |
| Label(s) | 3 |
| Packing group | II |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Special provisions | IB2, T7, TP1, TP8, TP28 |
| Packaging exceptions | 150 |
| Packaging non bulk | 202 |
| Packaging bulk | 242 |

IATA

| | |
|-------------------------------------|-------------------------------------------------------------------------|
| UN number | UN1263 |
| UN proper shipping name | Paint, Paint Related Material |
| Transport hazard class(es) | |
| Class | 3 |
| Subsidiary risk | - |
| Packing group | II |
| Environmental hazards | No. |
| ERG Code | 3H |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Other information | |
| Passenger and cargo aircraft | Allowed. |
| Cargo aircraft only | Allowed. |

IMDG

| | |
|-------------------------------------|-------------------------------------------------------------------------|
| UN number | UN1263 |
| UN proper shipping name | Paint, Paint Related Material |
| Transport hazard class(es) | |
| Class | 3 |
| Subsidiary risk | - |
| Packing group | II |
| Environmental hazards | |
| Marine pollutant | No. |
| EmS | F-E, <u>S</u> -E |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

DOT



IATA; IMDG



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

| | |
|----------------------------------|---------|
| 1,2-Dimethybenzene (CAS 95-47-6) | Listed. |
| 2-butanone (CAS 78-93-3) | Listed. |
| Cumene (CAS 98-82-8) | Listed. |
| Ethyl benzene (CAS 100-41-4) | Listed. |
| Isobutyl acetate (CAS 110-19-0) | Listed. |
| Styrene, monomer (CAS 100-42-5) | Listed. |
| Toluene (CAS 108-88-3) | Listed. |
| Xylene (CAS 1330-20-7) | Listed. |

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

| | |
|-------------------|------------------------|
| Hazard categories | Immediate Hazard - Yes |
| | Delayed Hazard - Yes |
| | Fire Hazard - Yes |
| | Pressure Hazard - No |
| | Reactivity Hazard - No |

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. |
|--------------------|------------|-----------|
| Xylene | 1330-20-7 | 10 to <20 |
| Ethyl benzene | 100-41-4 | 1 to <5 |
| Toluene | 108-88-3 | 1 to <5 |
| 1,2-Dimethybenzene | 95-47-6 | 0.1 to <1 |
| Cumene | 98-82-8 | 0.1 to <1 |
| Styrene, monomer | 100-42-5 | 0.1 to <1 |

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

1,2-Dimethybenzene (CAS 95-47-6)
Cumene (CAS 98-82-8)
Ethyl benzene (CAS 100-41-4)
Styrene, monomer (CAS 100-42-5)
Toluene (CAS 108-88-3)
Xylene (CAS 1330-20-7)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

| | |
|--------------------------|------|
| 2-butanone (CAS 78-93-3) | 6714 |
| Toluene (CAS 108-88-3) | 6594 |

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

| | |
|--------------------------|--------|
| 2-butanone (CAS 78-93-3) | 35 %WV |
| Toluene (CAS 108-88-3) | 35 %WV |

DEA Exempt Chemical Mixtures Code Number

| | |
|--------------------------|------|
| 2-butanone (CAS 78-93-3) | 6714 |
| Toluene (CAS 108-88-3) | 594 |

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

1,2-Dimethybenzene (CAS 95-47-6)
2-butanone (CAS 78-93-3)
Carbon Black (CAS 1333-86-4)
Cumene (CAS 98-82-8)
Ethyl benzene (CAS 100-41-4)
Silicon dioxide (CAS 14808-60-7)
Styrene, monomer (CAS 100-42-5)
Talc (CAS 14807-96-6)
Titanium dioxide (CAS 13463-67-7)
Toluene (CAS 108-88-3)
Xylene (CAS 1330-20-7)

US. Massachusetts RTK - Substance List

1,2-Dimethybenzene (CAS 95-47-6)
2-butanone (CAS 78-93-3)
Calcium carbonate (CAS 1317-65-3)
Carbon Black (CAS 1333-86-4)
Cumene (CAS 98-82-8)
Ethyl benzene (CAS 100-41-4)
Isobutyl acetate (CAS 110-19-0)
Kaolin (CAS 1332-58-7)
Silicon dioxide (CAS 14808-60-7)
Styrene, monomer (CAS 100-42-5)
Talc (CAS 14807-96-6)
Titanium dioxide (CAS 13463-67-7)
Toluene (CAS 108-88-3)
Xylene (CAS 1330-20-7)

US. New Jersey Worker and Community Right-to-Know Act

1,2-Dimethybenzene (CAS 95-47-6)
2-butanone (CAS 78-93-3)
Calcium carbonate (CAS 1317-65-3)
Carbon Black (CAS 1333-86-4)
Cumene (CAS 98-82-8)
Ethyl benzene (CAS 100-41-4)
Isobutyl acetate (CAS 110-19-0)
Kaolin (CAS 1332-58-7)

Silicon dioxide (CAS 14808-60-7)
 Styrene, monomer (CAS 100-42-5)
 Talc (CAS 14807-96-6)
 Titanium dioxide (CAS 13463-67-7)
 Toluene (CAS 108-88-3)
 Xylene (CAS 1330-20-7)

US. Pennsylvania Worker and Community Right-to-Know Law

1,2-Dimethybenzene (CAS 95-47-6)
 2-butanone (CAS 78-93-3)
 Calcium carbonate (CAS 1317-65-3)
 Carbon Black (CAS 1333-86-4)
 Cumene (CAS 98-82-8)
 Ethyl benzene (CAS 100-41-4)
 Isobutyl acetate (CAS 110-19-0)
 Kaolin (CAS 1332-58-7)
 Silicon dioxide (CAS 14808-60-7)
 Styrene, monomer (CAS 100-42-5)
 Talc (CAS 14807-96-6)
 Titanium dioxide (CAS 13463-67-7)
 Toluene (CAS 108-88-3)
 Xylene (CAS 1330-20-7)

US. Rhode Island RTK

1,2-Dimethybenzene (CAS 95-47-6)
 2-butanone (CAS 78-93-3)
 Cumene (CAS 98-82-8)
 Ethyl benzene (CAS 100-41-4)
 Isobutyl acetate (CAS 110-19-0)
 Styrene, monomer (CAS 100-42-5)
 Toluene (CAS 108-88-3)
 Xylene (CAS 1330-20-7)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

| | |
|-----------------------------------|---------------------------|
| benzene (CAS 71-43-2) | Listed: February 27, 1987 |
| Carbon Black (CAS 1333-86-4) | Listed: February 21, 2003 |
| Cumene (CAS 98-82-8) | Listed: April 6, 2010 |
| Ethyl benzene (CAS 100-41-4) | Listed: June 11, 2004 |
| Silicon dioxide (CAS 14808-60-7) | Listed: October 1, 1988 |
| Titanium dioxide (CAS 13463-67-7) | Listed: September 2, 2011 |

US - California Proposition 65 - CRT: Listed date/Developmental toxin

| | |
|------------------------|---------------------------|
| benzene (CAS 71-43-2) | Listed: December 26, 1997 |
| Toluene (CAS 108-88-3) | Listed: January 1, 1991 |

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

| | |
|------------------------|------------------------|
| Toluene (CAS 108-88-3) | Listed: August 7, 2009 |
|------------------------|------------------------|

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

| | |
|-----------------------|---------------------------|
| benzene (CAS 71-43-2) | Listed: December 26, 1997 |
|-----------------------|---------------------------|

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|----------------------|------------------------------------------------------------------------|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | No |
| Canada | Domestic Substances List (DSL) | No |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | No |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | No |
| New Zealand | New Zealand Inventory | No |

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|-------------------------------------------------------------------|------------------------|
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | No |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

| | |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Issue date | 05-07-2015 |
| Version # | 01 |
| HMIS® ratings | Health: 2* Flammability: 3 Physical hazard: 0 |
| NFPA ratings | Health: 2 Flammability: 3 Instability: 0 |
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