

SAFETY DATA SHEET

Section 1. Identification

GHS product identifier: 1K Frame Black Industrial Enamel
Product number: 8666-01AS, 8837-01AS, 8902-01AS, 8960-01AS
Product use: Surface Coating: For Professional and Industrial Use Only.
Restrictions on use: Not for sale to the general public.
Manufacture/Supplier: Transtar Autobody Technologies
Address: 2040 Heiserman Dr.
Brighton, Mi. 48114
Telephone: 810-360-1600
Website: www.tat-co.com
Emergency telephone number: Chemtrec (North America) 800-424-9300
Chemtrec (Int'l) +1-703-527-3887

Section 2. Hazards identification

OSHA/HCS status: This material is considered hazardous by the OSHA Hazardous Communication Standard (29 CFR 1910.1200).

Hazard classification:

Physical hazards: Flammable Liquids: Category 2

Health hazards: Serious Eye Damage/Eye Irritation: Category 1
Specific Target Organ Toxicity (Single Exposure) (Narcotic effects): Category 3
Carcinogenicity: Category 2
Acute Toxicity, (Dermal), (Inhalation), (Oral): Category 4
Skin Sensitization: Category 1
Reproductive Toxicity (fertility), (the unborn child): Category 2

Environmental hazards: Hazardous to the aquatic environment, acute hazard: Category 1
Hazardous to the aquatic environment, long-term hazard: Category 3

GHS label elements

Hazard pictograms:



Signal word: Danger

Hazard statements: H225: Highly flammable liquid and vapor.
H302: Harmful if swallowed.
H312: Harmful in contact with skin.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H332: Harmful if inhaled.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
H351: Suspected of causing cancer.
H361: Suspected of damaging fertility or the unborn child.
H400: Very toxic to aquatic life.
H412: Harmful to aquatic life with long lasting effects.

Precautionary statements:

Prevention: P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233: Keep container tightly closed.

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P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting/equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363: Wash contaminated clothing before reuse.
P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.
P304+P340 + P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER or doctor/physician.
P370+P378: In case of fire; Use water spray, carbon dioxide, dry chemical or alcohol foam for extinction.

Storage: P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P235: Keep cool.
P405: Store locked up.

Disposal: P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC): None known.

Section 3. Composition / Information on Ingredients

Components	CAS #	Percent
Acetone	67-64-1	25-35
Methyl n-amyl ketone	110-43-0	10-15
n-Butyl acetate	123-86-4	5-10
Pentan-2-one	107-87-9	3-6
Xylene, mixture of isomers	1330-20-7	<1
Ethanol	64-17-5	<1
4-methyl-2-pentanone	108-10-1	<1
2-Butanone oxime	96-29-7	<1
Carbon black*	1333-86-4	1-3
Modified Alkyd	none	30-40

*Carbon black is bound within the product matrix.

Section 4. First aid measures

Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. In case of irritation from airborne exposure, move to fresh air. Get medical attention promptly.

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Skin Contact: Flush contaminated skin with soap and plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 20 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that gas or vapor is still present, the rescuer should wear an appropriate mask of self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Ingestion: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute

Potential acute health effects

Eye contact: Causes serious eye irritation.

Skin contact: Causes skin irritation.

Inhalation: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.

Ingestion: Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:
pain or irritation.
Watering
Redness

Skin contact: Adverse symptoms may include the following:
irritation
redness

Inhalation: Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness

Ingestion Adverse symptoms may include the following:
nausea or vomiting

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Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments: Treat symptomatically and supportively.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. If it is suspected that gas or vapor is still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Section 5. Fire-fighting measures

Suitable extinguishing media: Use dry chemical, carbon dioxide, water spray (fog) or foam.

Unsuitable extinguishing media: Do not use water jet.

Special hazards arising from the substance or mixture: Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Hazardous thermal decomposition products: Decomposition products may include the following materials: carbon dioxide, carbon monoxide, smoke, oxides of nitrogen.

Special protective actions for fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self contained breathing apparatus with full face piece operated in the positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the

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information in "For non-emergency personnel".

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up: Eliminate sources of ignition. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Avoid runoff into storm sewers and ditches which lead to waterways. Use only non-combustible material for clean-up. Recover by pumping (use explosion proof or hand pump). Use clean, non-sparking tools to collect absorbed materials. Eliminate all ignition sources. Prevent additional discharge of material is able to do so safely. Do not touch or walk through spilled material. Collect spilled materials for disposal. Wear appropriate personal protective equipment (see Section 8 Exposure controls/personal protection). Evacuate unnecessary personnel. Do not apply water to the leak.

Section 7. Handling and storage

Precautions for safe handling: Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not swallow. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion proof electrical equipment. Empty containers retain product residue and can be hazardous. Do not reuse container. Ground and bond containers when transferring material. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls / personal protection

Control parameters
Occupational exposure limits

U.S. ACGIH Threshold Limit Values

Components	Type	Value	Form
Acetone	TWA	500ppm 8 hours	
		1188 mg/m ³ 8 hours	
	STEL	750ppm 15 minutes	
		1782 mg/m ³ 15 minutes	
Heptan-2-one; methyl amyl ketone	TWA	50ppm	

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Acetic acid, butyl ester; n-butyl acetate	TWA	150ppm
	STEL	200ppm
Pentan-2-one; methyl propyl ketone	STEL	150ppm
Xylene, mixture of isomers	TWA	100ppm 8 hours
	TWA	434 mg/m3 8 hours
	STEL	150ppm 15 minutes
	STEL	651 mg/m3 15 minutes
Ethanol	STEL	1000ppm
4-methyl-2-pentanone;	TWA	20ppm
MIBK	STEL	75ppm
	BEL (01 2010)	1 mg/l (urine)

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

Components	Type	Value	Form
Acetone	PEL	1000ppm 8 hours	
		2400 mg/m3 8 hours	
Heptan-2-one; methyl amyl ketone	PEL	100ppm	
		465 mg/m3	
Acetic acid, butyl ester; n-butyl acetate	PEL	150ppm	
		710 mg/m3	
Pentan-2-one; methyl propyl ketone	PEL	200ppm	
		700 mg/m3	
Xylene, mixture of isomers	PEL	100ppm 8 hours	
		435 mg/m3 8 hours	
Ethanol	PEL	1000ppm	
		1900 mg/m3	
4-methyl-2-pentanone; MIBK	PEL	100ppm	
		410 mg/m3	

NIOSH REL

Components	Type	Value	Form
Acetone	TWA	250ppm 10 hours	
		590 mg/m3 10 hours	

Appropriate engineering controls:

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection:

Safety glasses equipped with side shields are recommended as minimum protection in industrial settings.

Skin protection

Hand protection:

Chemical-resistant gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers.

Body protection:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Use a properly fitted, air-purifying or supplied-air respirator complying with an approved standard if a risk assessment indicated this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical & Chemical Properties

Appearance

Physical state:	Liquid
Form:	Liquid
Color:	Opaque
Odor:	Pungent
Odor threshold:	Not available
pH:	Not available
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	56.05°C-152°C (132.9°F-305.6°F)
Flash point:	-17.8°C (-0.04°F) (Tag closed cup)
Evaporation rate:	Not available
Upper/lower flammability or explosive limits:	Not available
Vapor pressure:	Not available
Vapor density:	➤ 1 Air = 1
Relative density:	0.9208-0.9448
Solubility(ies):	Not available
Partition coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	18"-22" # 4 Ford cup
Other information:	No additional information

Section 10. Chemical stability & reactivity information

Reactivity: None known.

Chemical stability: Stable.

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Possibility of hazardous reactions:	None known.
Conditions to avoid:	All possible sources of ignition (heat, sparks, flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Incompatible materials:	Strong oxidizing agents. Strong acids. Strong alkalis.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Oral:	Acetone: Oral LD50: (Rat): 5800 mg/kg Heptan-2-one; methyl amyl ketone: Oral LD50: (Rat): 1,600 mg/kg n-butyl acetate: Practically nontoxic Oral LD50: (Rat): 10,760 – 14,130 mg/kg Pentan-2-one; methyl propyl ketone: Oral LD50: (Rat): 1,600 mg/kg Xylene, mixed isomers: Oral LD50: (Rat): 4,300 mg/kg Ethanol: Practically nontoxic Oral LD50: (Rat): 10,470 mg/kg 4-methyl-2-pentanone; MIBK: Oral LD50: (Rat): 2,080 mg/kg 2-Butanone oxime: Oral LD50: (Rat): 2,326 mg/kg
Dermal:	Acetone: Dermal LD50: (Rabbit): 15,700 mg/kg Heptan-2-one; methyl amyl ketone: Dermal LD50: (Rat): > 2,000 mg/kg n-Butyl acetate: Practically nontoxic Dermal LD0: (Rabbit): > 14,112 mg/kg Pentan-2-one; methyl propyl ketone: Dermal LD50: (Guinea Pig): 20 ml/kg Ethanol: Practically nontoxic Dermal LD50: (Rabbit): > 20,000 mg/kg 4-methyl-2-pentanone; MIBK: Dermal LD50: (Rabbit): > 10 ml/kg
Inhalation:	Acetone: Inhalation vapor LC50: (Rat): 32,000 mg/kg Heptan-2-one; methyl amyl ketone: LC50: (Rat, 4 h): > 16.7 mg/l n-Butyl acetate: Practically nontoxic, LC0: (Rat, 4 h) > 21.1 mg/l (vapor) Pentan-2-one; methyl propyl ketone: LC50: (Rat, 4 h) 25.5 mg/l Xylene, mixed isomers: LC50: (Rat, 4h) 5,000 ppm Inhalation gas Ethanol: Practically nontoxic LC50: (Rat 4 h) 124.7 mg/l (vapor) 4-methyl-2-pentanone; MIBK: LC50: (Rat 4 h) 2,000 – 4,000 ppm 2-Butanone oxime: LC50: (Rat 4 h) > 4.83 mg/l
Repeated dose toxicity:	n-Butyl acetate: Subchronic inhalation (vapor) administration to rat / affected organ(s): Nasal epithelium / signs: Atrophy of olfactory epithelium, changes in body weight, changes in food or water consumption, changes in organ weights. Ethanol: Subchronic oral administration to Rat / affected organ(s): kidney. signs: changes in organ weights, changes in organ structure or function. Subchronic drinking water administration to Rat / affected organ(s): liver / signs: changes in organ structure or function Subchronic drinking water administration to Mouse / affected organ(s): liver, heart, kidney, lung / signs: changes in organ weights Repeated inhalation administration to Rat / No adverse systemic effects reported.

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Irritation/Corrosion

Skin:

Acetone: (Rabbit, 24 h) 500 mg: mild irritant
Heptan-2-one; methyl amyl ketone: (Rabbit, 24 h): moderate
n-Butyl acetate: Not irritating. (Rabbit) Irritation Index: 8.0. (4 h) (occluded exposure)
Pentan-2-one; methyl propyl ketone: (Guinea Pig, 24 h): slight
Xylene, mixture of isomers: (Rat, 8 h) 60 microliters: mild irritant
(Rabbit, 24 h) 500 mg: moderate irritant
(Rabbit) 100%: moderate irritant
Ethanol: Not irritating. (Rabbit) Irritation Index: 0 / 8. (24 h) (occluded exposure)
4-methyl-2-pentanone; MIBK: (Rabbit, 72 h): none
2-Butanone oxime: (Rabbit) (OECD Test Guideline 404): no skin irritation

Eyes:

Acetone: (Human) 186,300 ppm: mild irritant
(Rabbit, 24 h) 20 mg: moderate irritant
(Rabbit) 10 microliters: mild irritant
Heptan-2-one; methyl amyl ketone: (Rabbit, 24 h): slight
n-Butyl acetate: Causes mild eye irritation. (Rabbit)
Pentan-2-one; methyl propyl ketone: (Rabbit, 24 h): moderate
Ethanol: Causes serious eye irritation. (Rabbit)
4-methyl-2-pentanone; MIBK: (Rabbit): slight to moderate
2-Butanone oxime: (Rabbit) (OECD Test Guideline 405): Risk of serious damage to eyes.

Sensitization

Skin:

Acetone: Not available
Heptan-2-one; methyl amyl ketone: (Mouse) – non-sensitizing
n-Butyl acetate: Not a sensitizer. Guinea pig maximization test. (guinea pig) No skin allergy was observed
Pentan-2-one; methyl propyl ketone: Not available
Ethanol: Not a sensitizer. LLNA: Local Lymph Node Assay> (Mouse) No effect is reported
4-methyl-2-pentanone; MIBK: Not available
2-Butanone oxime: Buehler Test – Guinea pig, (OECD Test Guideline 406): May cause sensitization by skin contact.

Respiratory:

Not available

Mutagenicity

Conclusion/Summary:

Not available

Carcinogenicity

Conclusion/Summary:

Ethanol: Chronic oral administration to rat, mouse / signs: No increase in tumor incidence was reported.
Repeated administration to laboratory animal / signs: Promotes tumor formation when administered with a cancer causing agent.
Chronic oral administration to human subjects / affected organ(s): Gastro-intestinal tract, liver / signs: Increased incidence of tumors was reported.
Classified by the International Agency for Research on Cancer as: Group 1: Carcinogenic to humans.

4-methyl-2-pentanone; MIBK: IRAC 2B: possibly carcinogenic to humans.

Xylene, mixture of isomers: IRAC 3.

Ethylbenzene: IRAC 2B.

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Toluene: IRAC 3.

Carbon black:

ANIMAL TOXICITY:

Rat, oral, duration 2 years
Effect: no tumors.

Mouse, oral, duration 2 years
Effect: no tumors.

Rat, inhalation, duration 2 years
Target organ: lungs.
Effect: inflammation, fibrosis, tumors.

Note: Tumors in the rat lung are considered to be related the "lung overload" rather than to a specific chemical effect of carbon black itself in the lung. These effects in rats have been reported in many studies on other poorly soluble inorganic particles and appear to be rat specific (ILSI, 2000). Tumors have not been observed in other species (i.e., mouse and hamster) for carbon black or other poorly soluble particles under similar circumstances and study conditions.

MORTALITY STUDIES (HUMAN DATA):

A study on carbon black production workers in the UK (Sorahan, 2001) found an increased risk of lung cancer in two of the five plants studied; however, the increase was not related to the dose of carbon black. Thus, the authors did not consider the increased risk in lung cancer to be due to carbon black exposure. A German study of carbon black workers at one plant (Morfeld, 2006; Buechte, 2006) found a similar increase in lung cancer risk but, like the Sorahan, 2001 (UK study), found no association with carbon black exposure. A large US study of 18 plants showed a reduction in lung cancer risk in carbon black production workers (Dell, 2006). Based upon these studies, the February 2006 Working Group at the International Agency for Research on Cancer (IARC) concluded that the human evidence for carcinogenicity was inadequate (IARC, 2010).

Since the IARC evaluation of carbon black, Sorahan and Harrington (2007) have re-analyzed the UK study data using an alternative exposure hypothesis and found a positive association with carbon black exposure in two of the five plants. The same exposure hypothesis was applied by Morfeld and McCunney (2009) to the German cohort; in contrast, they found no association between carbon black exposure and lung cancer risk and, thus, no support for the alternative exposure hypothesis used by Sorahan and Harrington.

Over, as a result of these detailed investigations, no causative link between carbon black exposure and cancer risk in humans has been demonstrated.

IARC CANCER CLASSIFICATION:

In 2006 IARC re-affirmed its 1995 finding that there is "inadequate evidence" from human health studies to assess whether carbon black causes cancer in humans. IARC concluded that there is "sufficient evidence" in experimental animal studies for the carcinogenicity of carbon black. IARC's overall evaluation is that carbon black is "possibly

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carcinogenic to humans (Group 2B)". This conclusion was based on IARC's guidelines, which generally require such a classification if one species exhibits carcinogenicity in two or more animal studies (IARC, 2010).

Solvent extracts of carbon black were used in one study of rats in which skin tumors were found after dermal application and several studies of mice in which sarcomas were found following subcutaneous injection. IARC concluded that there was "sufficient evidence" that carbon black extracts can cause cancer in animals (Group 2B).

ACGIH CANCER CLASSIFICATION:

Confirmed Animal Carcinogen with Unknown Relevance to Humans (Category A3 Carcinogen).

Reproductive toxicity

Conclusion/Summary:

Ethanol: Two generation study. Drinking water (Mouse) / No toxicity to reproduction. At high dose: Effects on fertility (testicular changes) Reproduction test. Inhalation (Rat) / No toxicity to reproduction Exposure during pregnancy. Inhalation (Rat) / No birth defects were observed. Exposure during pregnancy. Oral (Mouse) / Birth defects and toxicity were observed. (delays in development) Exposure during pregnancy. Drinking water (Rat, Rabbit, Mouse) / No birth defects were observed. (delays in development, at doses that produce effects in mothers)

Specific target organ toxicity (single exposure):

Not available

Specific target organ toxicity (repeated exposure):

Not available

Aspiration hazard:

Not available

Information on likely routes of exposure:

Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects:

Eye contact:

Causes serious eye irritation.

Inhalation:

Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.

Skin contact:

Causes skin irritation.

Ingestion:

Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact:

Adverse symptoms may include pain or irritation, watering, redness.

Inhalation:

Adverse symptoms may include nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness.

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Skin contact: Adverse symptoms may include irritation, redness.

Ingestion: Adverse symptoms may include nausea or vomiting.

Potential chronic health effects: Overexposure may cause nervous system damage. Overexposure may cause kidney damage. May cause liver disorder (e.g., edema, proteinuria) and damage. Significant exposure adversely affects people with chronic disease of the respiratory system, skin, and/or eyes.

Section 12. Ecological information

Toxicity

Acute toxicity

Fish

Product: Not available

Specified substances: LC-50 (Fathead Minnow, 96 h): 131 mg/l
Heptan-2-one; methyl amyl ketone

Aquatic invertebrates

Product: Not available

Chronic toxicity

Fish

Product: Not available

Aquatic invertebrates

Product: Not available

Toxicity to aquatic plants

Product: Not available

Specified substances: ErC50 (Selenastrum capricornutum, 72 h): 98.2 mg/l
Heptan-2-one; methyl amyl ketone

Persistence and degradability

Biodegradation

Product: Not available

Specified substances: 69% (28 d, Ready Biodegradability-CO2 in Sealed Vessels (Headspace Test))
Heptan-2-one; methyl amyl ketone

Biological Oxygen Demand

Product: Not available

Specified substances: BOD-5: 1,770 mg/g
Heptan-2-one; methyl amyl ketone BOD-20: 2,000 mg/g

Chemical Oxygen Demand

Product: Not available

Specified substances: 2,420 mg/g
Heptan-2-one; methyl amyl ketone

BOD/COD ratio: Not available

Bioaccumulative potential: Not available

Mobility in soil: Not available

Results of PBT and vPvB assessment: Not available

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Other adverse effects: Not available

Section 13. Disposal considerations

Disposal methods: Dispose of waste in accordance with all local, state and federal regulations.

Section 14. Transport information

DOT

Basic shipping requirements:
UN number UN1263
Proper shipping name Paint
Hazard class Flammable Liquid
Labels required 3
Additional information:
Packaging exceptions 150
Packaging non bulk 173
Packaging bulk 242

IATA

Basic shipping requirements:
UN Number 1263
Proper shipping name Paint
Hazard class 3
Packing group II

Section 15. Regulatory information

US federal regulations

OSHA: This product is hazardous according to OSHA 29 CFR 1910.1200

SARA Title III Section 313 – Toxic Chemical: Listed Substance: None

SARA Title III Section 302 Extremely hazardous substances: None

SARA Title III Section 311/312 Hazard categories: Immediate (acute) health hazard
 Delayed (chronic) health hazard
 Fire hazard

Inventory Status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

* A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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State Regulations

California Proposition 65: **Warning:** This product contains a chemical known to the State of California to cause cancer.
Warning: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Massachusetts RTK: Acetone (CAS67-64-1)
Acetic acid, butyl ester (CAS 123-86-4)
Ethanol (CAS 64-17-5)
2-Butanone oxime (CAS 96-29-7)
Xylene (CAS 1330-20-7)

New Jersey RTK: Acetone (CAS67-64-1)
Acetic acid, butyl ester (CAS 123-86-4)
Ethanol (CAS 64-17-5)
2-Butanone oxime (CAS 96-29-7)
Xylene (CAS 1330-20-7)

Pennsylvania RTK: Acetone (CAS67-64-1)
Acetic acid, butyl ester (CAS 123-86-4)
Ethanol (CAS 64-17-5)
2-Butanone oxime (CAS 96-29-7)
Xylene (CAS 1330-20-7))

Compliance Statement
Coating Category: Single Stage Coating

	As Packaged		As Applied	
	Grams/Liter	Lbs/Gal	Grams/Liter	Lbs/Gal
Actual VOC	254	2.12	254	2.12
Reg. VOC	398	3.32	398	3.32
	Lbs/Gal Solids	Lbs/Lbs Solids	Lbs/Gal Solids	Lbs/Lbs Solids
HAPs	0.34	0.03	0.34	0.03
	Wt%	Vol.%	Wt%	Vol.%
Volatiles	58	66	58	66
Water	none	none	none	none
Exempt	30	36	30	36
	Grams/Liter	Lbs/Gal	Grams/Liter	Lbs/Gal
Density	932	7.77	932	7.77

Section 16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA

HMIS® ratings Health: 2
Flammability: 3
Physical hazard: 1

NFPA ratings Health: 2
Flammability: 3
Instability: 1

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SAFETY DATA SHEET

for loss, damage, or expense arising out of or in any way connected with handling, storage, use or disposal of this product. It is the responsibility of the user to comply with all Federal, State and Local laws and regulations.

Issue date 02/16/2016 version 3