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Enriching lives through innovation Date Revised: Prepared By:

HUNTSMA

CB3 10/01/2014 Nick Paris

Reason for Revision:

See Section 16

	8084 Supra-Insta Carbon Wettable C 1333-86-4	ant® Black Carbon Black pig		k	
kirk Road, Bel	(301) 210-7 evard, Los An	800 9a-5p (0900- ⁻ geles, California, ^I	USA 90023	F	
Chemtrec):	800-424-93	00			
redients (29CF			% (90-98)	Exposure Limit OSHA PEL 3.5 mg/m ³	s (8 Hrs.TWA) ACGIH TLV 3.5 mg/m ³
		C.A.S. 9084-06-4	% (1-4) (1-5)	OSHA PEL	ACGIH TLV
-					
with little to r arbon monox and sparks a	ide and car re apparent.	alation can caus bon dioxide are Packaging mat	e temporary lung emitted. It may erial can burn o	g irritation. May ignite / not be obvious tha r melt in fire, produci	t product is burning ng toxic smoke and
H=0, F=1,	R=0, P	=0 (0=Minim	al, 1=Slight, 2=N	Moderate, 3=Serious,	4=Severe)
Non-irrita unpleasa Will not	int deposits. irritate skin a	and is not likely	to cause allergic	skin reaction. Irritatio	n to skin or mucous
of dust. Small an		an one ounce/30	grams) swallowed	d is not likely to cause a. Seek medical attentio	
	er: Address: rkirk Road, Belt t Olympic Bould (Chemtrec): FORMATION gredients (29CF at edients:) ITIFICATION with little to r arbon monox and sparks an H=0, F=1, cts: Non-irrita unpleasa Will not membrar of dust.	8084 Supra-Inst Carbon Wettable O 1333-86-4 Pigment B er: 77266 Address: rkirk Road, Beltsville, Marylan (301) 210-7 t Olympic Boulevard, Los An (323) 269-7 Chemtrec): 800-424-93 FORMATION ON INGREDII gredients (29CFR1910.1200) ht edients:) ITIFICATION with little to no odor. Inha arbon monoxide and car and sparks are apparent. H=0, F=1, R=0, P cts: Non-irritating to the e unpleasant deposits. Will not irritate skin a membranes can occur of dust.	8084 Supra-Instant® Black Carbon Wettable Carbon Black pig 1333-86-4 Pigment Black 7 Pr: 77266 e/Address: rkirk Road, Beltsville, Maryland, USA 20705 (301) 210-7800 9a-5p (0900 t Olympic Boulevard, Los Angeles, California, I (323) 269-7311 9am-5pm (09 Chemtrec): 800-424-9300 FORMATION ON INGREDIENTS gredients (29CFR1910.1200): C.A.S. nt 1333-86-4 edients: C.A.S.) 9084-06-4 ITIFICATION INFERGENCY for with little to no odor. Inhalation can cause arbon monoxide and carbon dioxide are and sparks are apparent. Packaging mathematication can cause arbon monoxide and carbon dioxide are and sparks are apparent. Packaging mathematication can cause arbon monoxide and carbon dioxide are and sparks are apparent. Packaging mathematication can cause arbon monoxide and carbon dioxide are and sparks are apparent. Packaging mathematication can cause arbon monoxide and carbon dioxide are and sparks are apparent. Packaging mathematication can cause arbon monoxide and carbon dioxide are and sparks are apparent. Packaging mathematication can cause arbon dioxide are and sparks are apparent. Packaging mathematication can cause arbon monoxide and carbon dioxide are and sparks are apparent. Packaging mathematication can cause	Supra-Instant® Black Carbon Wettable Carbon Black pigment, Lampblac 1333-86-4 Pigment Black 7 rr: 77266 2/Address: rkirk Road, Beltsville, Maryland, USA 20705 (301) 210-7800 9a-5p (0900-1700) EST M-F t Olympic Boulevard, Los Angeles, California, USA 90023 (323) 269-7311 9am-5pm (0900-1700) PST M-I (Chemtrec): 800-424-9300 IFORMATION ON INGREDIENTS gredients (29CFR1910.1200): C.A.S. % t 1333-86-4 (90-98) edients: C.A.S. %) 9084-06-4 (1-4) (1-5) ITIFICATION EMERGENCY OVERVIEW with little to no odor. Inhalation can cause temporary lung arbon monoxide and carbon dioxide are emitted. It may and sparks are apparent. Packaging material can burn o H=0, F=1, R=0, P=0 (0=Minimal, 1=Slight, 2=N ets: Non-irritating to the eyes. Excessive exposure to airbo unpleasant deposits. Will not irritate skin and is not likely to cause allergic membranes can occur by direct mechanical action or by of dust.	8084 Supra-Instant® Black Carbon Wettable Carbon Black pigment, Lampblack 1333-86-4 Pigment Black 7 rr: 77266 %Address: rkirk Road, Beltsville, Maryland, USA 20705 (301) 210-7800 9a-5p (0900-1700) EST M-F t Olympic Boulevard, Los Angeles, California, USA 90023 (323) 269-7311 9am-5pm (0900-1700) PST M-F (Chemtrec): 800-424-9300 IFORMATION ON INGREDIENTS gredients (29CFR1910.1200): Exposure Limit C.A.S. % OSHA PEL 1333-86-4 (90-98) 3.5 mg/m ³ edients: Exposure Limit C.A.S. % OSHA PEL) 9084-06-4 (1-4) Not established. Not established. ITIFICATION EMERGENCY OVERVIEW "with little to no odor. Inhalation can cause temporary lung irritation. May ignite arbon monoxide and carbon dioxide are emitted. It may not be obvious thai and sparks are apparent. Packaging material can burn or melt in fire, produci "H=0, F=1, R=0, P=0 (0=Minimal, 1=Slight, 2=Moderate, 3=Serious, tts: Non-irritating to the eyes. Excessive exposure to airborne dust may reduce vunpleasant deposits.

Acute: Dust concentrations above the permissible exposure limit may cause temporary upper respiratory tract discomfort.

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and in some user industries, suggested that there is inadequate evidence for the carcinogenicity in

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Chronic:

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c: Epidemiological studies of workers in the Carbon Black pigment producing industries of North America and Western Europe show no significant adverse health effect due to occupational exposure to Carbon Black pigment. Early studies in the former USSR and Eastern Europe report respiratory diseases among workers exposed to Carbon Black pigment, including bronchitis, pneumonia, emphysema, and rhinitis. Such studies are of questionable validity, due to inadequate study design and methodology, lack of appropriate controls for cigarette smoking, and other confounding factors such as concurrent exposures to carbon monoxide, coal oil and petroleum vapors. Moreover, review of these studies indicates that concentrations of Carbon Black pigment were greater than current occupational exposure standards. In Monograph 65, issued in April 1996, the International Agency for Research on Cancer (IARC) re-evaluated Carbon Black pigment and concluded that: "Although one cohort study on the Carbon Black pigment production industry showed slight excesses of cancer, the totality of the epidemiology studies, both in the Carbon Black pigment production industry

Other Effects:

Medical ConditionsNone known. Carbon Black pigment, like any nuisance dust, may aggravate certain pre-existing upperAggravated by Exposure:respiratory disorders, such as bronchitis or asthma.Carcinogenicity:IARC: Listed Group 2B/Possible HumanNTP: Not ListedOSHA: Not Listed

Coroinogon

humans of Carbon Black pigment."

None known.

Carcinogen Other: The IARC changed the listing of Carbon Black pigment April 12, 1996 from Category 3 (insufficient evidence to make a determination) to Category 2B (Known animal carcinogen/possible human carcinogen) based on the results of rat inhalation studies of Carbon Black pigment, despite the lack of any parallel evidence in humans or other animal species. See section 11.

4. FIRST AID MEASURES

Eyes: Flush eyes with water, lifting eyelids periodically. Remove contact lenses. Continue flushing for 15 minutes or until eyes return to normal. Get medical attention if irritation develops or persists.
Skin: Wash with soap and water. Get medical attention if irritation develops or persists. Wash clothing before re-use.
Ingestion: Swallowing less than an ounce (less than 30 grams) will not cause harm. For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and Contact medical personnel or poison control center immediately. Do not give anything by mouth to an unconscious person.
Inhalation: Move from dusty area to fresh air and get medical attention for any breathing difficulty. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get immediate medical attention.

5. FIRE FIGHTING MEASURES

Flammable Properties:	Not Flammable.
Flash Point:	May ignite in air above 315°C. Flash point is above 500°C.
Upper Explosive Limit (UEL):	122 g/m3
Lower Explosive Limit (LEL):	Will not explode
Auto-ignition Temperature:	Exposure to excessive heat greater than 500°F (260°C) can cause this product to ignite.
Extinguishing Media:	Use water fog or foam to cool below ignition point. Wets poorly with water or water spray.
	Use extinguishing agents that are suitable to the surrounding fire; water spray, dry
	chemical, foam or CO ₂
Fire fighting Instructions:	This product may contain residual oxygenated volatiles that can further react and generate
	heat. In the event the product reaches 230°F, bags should be separated by an air space
	and allowed to cool and should be removed from the vicinity of other combustibles.
	Carbon monoxide and carbon dioxide are emitted. It may not be apparent when Carbon
	Black pigment is burning until it is stirred and sparks are visible. Firefighters should be
	equipped with self-contained breathing apparatus to protect against potentially toxic and
	irritating fumes and smoke inhalation.

6. ACCIDENTAL RELEASE MEASURES

Small Spill: If dust is generated, use appropriate respiratory protection. Vacuum or scoop material into an appropriately marked container for re-use or disposal. Avoid excessive generation of dust.

Large Spill: Use recommended protective clothing and respiratory protection. Use shovel to reclaim material. Vacuum or scoop material into an appropriately marked container for re-use or disposal. Avoid excessive generation of dust. Spill area can be washed with water. Collect wash water for approved disposal. Prevent runoff from entering storm sewers and ditches which lead to natural waterways.

7. HANDLING AND STORAGE

Storage:

Store dry at ambient temperature away from food and beverages, excessive heat or flame sources (furnace,



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Handling:

kilns, boilers etc.). Avoid breathing dust. Avoid contact with eyes and skin. Wash thoroughly after handling. Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Avoid contact with moisture. Re-seal bag immediately after use. Pallets are wrapped in polyethylene plastic. Removal may cause an electrostatic spark; therefore removal of the wrap should not be in the presence of flammable vapors.

Storage Temperature (Min/Max)	Ambient/50°C (122°F)
Shelf Life :	Unlimited in closed container
Special Sensitivity	Excessive Heat and Strong oxidizing agents. such as chlorates,
	bromates, and nitrates.
Other Precautions	None

8. EXPOSURE CONTROLS/PERSONAL PROTECTION . .

Engineering Controls:	Maintain air levels below the recommended exposure limit using exhaust ventilation if
	necessary.
Eyes:	Safety Glasses.
Skin:	Body-covering clothing. Rubber, Plastic, Leather or cloth gloves are suggested to facilitate personal hygiene.
Respiratory Protection:	Workplace ambient dust concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved respirator with dust prefilter should be worn.
Other:	Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of hazardous chemicals.
Work/Hygiene Practices:	Employees should wash their hands and face before eating, drinking or using tobacco products.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Solid Black Powder
Odor	: Odorless
Physical State	: Dry Powder
pH	
Vapor Pressure	
Vapor Density	: Not a vapor
Boiling Point.	
Freezing Point	: Not applicable
Melting Point	: Greater than 500°F (260°C)
Solubility in Water	Insoluble
Specific Gravity (g/ml)	: 1.7 to 1.9 @ 20°C (68°F); DIN 787/10
Bulk Density (kg/m ³)	
Particle Size (microns)	: 0.03-0.10
Volatile Organic Compounds (VOC)	
Chemical Formula	

10 STABILITY AND REACTIVITY

10. STABILITY AND REACTIVITY	
Chemical Stability (Conditions to Avoid):	Stable. Keep away from flames and heat. Exposure to excessive heat greater than 500°F (260°C) can cause this product to ignite.
Incompatibility (materials to avoid):	Excessive heat and Strong oxidizing agents. such as chlorates, bromates, and nitrates.
Decomposition Temperature F ^o (C ^o):	Does not decompose
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide when burning.
Hazardous Polymerization:	Will not occur
11. TOXICOLOGICAL INFORMATION	
Eyes:	Not irritating to rabbit eyes
Skin:	Not irritating to rabbit skin Dermal, LD 50 greater than 240mg/kg, IP
	injection, mice and rats
Ingestion:	Non irritating. The oral, LD50 for rats is greater than 5000 mg/l
Inhalation:	Non irritating. LC 50 greater than 156 mg/m ³ , mice and rats
Subchronic:	Data not established for product
Chronic/Carcinogenicity:	Data not established for product
Other (Mutagenic, Teratogenic, Reproductive Tests):	This product contains less than 0.1% of absorbed PAHs (polynuclear aromatic hydrocarbons).In non-absorbed form, som PAHs have been found



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to be carcinogens in animal studies. No correlating carcinogenic effect, however, has been observed in humans due to exposure to Carbon Black pigment. Chronic inflammation, lung fibrosis and lung tumors have been observed in some rats experimentally exposed, for long periods of time, to very high concentrations of Carbon Black pigment and several other insoluble fine dust particles. Tumors have not been observed in other animal speicies (i.e mouse and hamster) under similar circumstances and study condidions. Researchers conducting the rat inhalation studies believe that these effects most likely result from the massive accumulation of small dust particles in the lung which overwhelm the natural lung clearance mechanism, known as the "lung overload" phenomenon, rather than from a specific chemical effect of the dust particles in the lung.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information: Chemical Fate Information: Fish toxicity: Golden Orfe (Leuciscus idus) LCo greater than 1000 mg/l No appreciable bioconcentration is expected in the environment or biological organisms. Does not biodegrade. Not mobile in soil. Not soluble in water.

13. DISPOSAL CONSIDERATIONS

Material which cannot be re-used should be disposed in accordance with federal, state and local environmental control regulations at an authorized site. This product when discarded as sold is not a RCRA hazardous waste. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40CFR 261.20-24)

14. TRANSPORT INFORMATION

DOT Shipping Name	: (Carbon Black pigment
Technical Shipping Name	:	Pigment, NOI
DOT Hazardous Classification	: 1	Non-Regulated
DOT Hazard Class	: 1	Non-Regulated
DOT Identification Number	: 1	Not Applicable/DOT Non-Hazardous
DOT Labels required	: 1	Not Applicable/DOT Non-Hazardous
DOT Placards required	: 1	Not Applicable/DOT Non-Hazardous
UN Class	: (Combustible solid
UN/NA Number	: 1	Not Applicable_UN/NANon-Hazardous
Freight Class	: 4	45

15. REGULATORY INFORMATION

***************************************	*****	U.S. Federal Regulations	*	*****
OSHA:	This product is co 1910.1200).	onsidered Hazardous by definition o	f Hazard Comm	nunication Standard (29 CFR
CERCLA/SUPERF	UND: (40 CFR 117,302)) Reportable Quantity (RQ): nowever, we recommend you conta	ct local authoriti	es to verify requirements for
Superfund Amendr	nents and Reauthorization Act	(SARA), Title III:		
Section 30 Substance	02 (Extremely Hazardous es):	None		
Section 31	1/312 (Hazard Categories):	Reportable on Tier I and/or Tier I in amounts equal to or greater that		
Section 31	3 (Reportable Toxic Ingredient	:s):	•	
Chemical None Rep			C.A.S.	Concentration
T.S.C.A.:	This product is listed on TS (CHIP) Chemical under TSCA	CA Inventory. Carbon black pigme	nt is a Chemica	al Hazard Information Profile
CONEG:	This product meets the Coal	ition of Northeast Governors (CON admium, Mercury and Hexavalent Cl	,	
U.S. Clean Air Act.	5	made with nor does it contain any Cl	ass 1 or Class 2	2 ozone depleting substances

U.S. Clean Air Act, Carbon Black pigment is not made with nor does it contain any Class 1 or Class 2 ozone depleting substances as defined under the 1990 amendments to the act.

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U.S. FDA Regulations: U.S. NSF Certification:	articles intend Total Carbon which is a fur with milk or e Information o	ded for repeat use unde Black pigment in the r nace process black, m dible oils. n Carbon Black pigme	er 21 CFR (Code of Fed ubber may not exceed s ay not exceed 10% by v	h food and drugs when used eral Regulations) 177.2600. Lin 50% by weight of the rubber p veight of rubber product intend he National Sanitation Founda ack pigment.	mitation: roduct. This product, led for use in contact
*****	****	Inte	ernational Regulations	*******	******
Australia: Canadian WHM Canadian Enviro Europe (EU): Japan:	IS: onmental Protectio	on Act (CEPA):	Not restricted/non- All components of (DSL), and accepta All components o Existing Commerci	ry of Chemical Substances (Ald hazardous, controlled substan this product are on the Dome able for use under the provision f this product are on the Eu ial Chemical Substances (EINE tional Trade & Industry List o	ce (D2A) estic Substances List ns of CEPA. ropean Inventory of ECS).
Korea:			Toxic Chemical Co	ontrol Law (TCCL)	
******	*****		State Regulations	*******	*****
CA	=		-		
MA	=				
NJ4	=				
PA3 = Louisiana: Right to know legislation requires inventory reporting through Community Right-to-Know when the quantity of Carbon Black pigment exceeds 500 pounds on any given day. Spills or releases beyond the site of the facility of greater than 5,000 pounds are required to be immediately reported to the state Emergency Response Commission via the Office of the State Police, Transportation and Environmental Safety Section, Hazardous Material Hotline, (504) 925-6596 (collect calls accepted 24 hours per day).					
Chemical Name	e:	C.A	S. C	Concentration	State Code
Carbon Black pi		1333-		90 - 98%	NJ4
Sodium Salt (Na		9084		1 - 4%	NJ4
Note:	This informatior	n based on random san	nple analyses. Actual co	ntent may vary from batch to b	oatch.
16. OTHER INF Reason for revis		1/11/2006 - Upo 5/5/2008 - Upo 5/17/2010 - Upo	vised to reflect OSHA ha date review date. date DOT and UN/NA in date review date. apt MSDS format to H	formation section 14.	

HMIS Codes: H=0, F=1, R=0, P=0 (0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe)

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