MATERIAL SAFETY DATA SHEET

SECTION 1 - MATERIAL IDENTIFICATION AND USE

Product: WHITE DCE 10281

Manufacturer's name: STARCO CONCENTRATES INC. Telephone number: 514-645-9559

12335 April Street

Montreal, Qc, Canada

H1B 5L8

Chemical name	Chemical Family	Chemical Formula
Dry compound	Pigment and/or additives	Proprietary mixture

Molecular weight	Trade Name and Synonyms	Material Use
Not applicable	Color/additives concentrates,	Coloration of PVC compounds
	masterbatch	

SECTION 2 – COMPOSITION/INFORAMATION ON INGREDIENTS

% Weight	CAS number	Ingredient	Units	Vapor pressure
0-6	21645-51-2	Aluminum hydroxide		
0-10	7631-86-9	Amorphous silica		
80-99	13463-67-7	Titanium dioxide	TWA :10 mg/m ³ (OSHA PEEL)	

SECTION 3 – HAZARDS IDENTIFICATION

Potential Health Effects

Acute toxicity

Skin Non-corrosive and non-sensitizing. Prolonged contact may result in

rashes/irritations due to drying of the skin and/or mechanical abrasion related to

skin-to-clothing contact or skin-to-skin contact.

Inhalation Inert nuisance dust. Temporary drying effect and/or irritation of mucous

membranes may result from excessive exposure. Exposure to dust may

aggrevate pre-existing respiratory conditions.

Ingestion No adverse health effects anticipated by this route during proper industrial

handling.

Chronic Effects Titanium dioxide is listed by IARC as possibly carcinogenic to human(Group

2B). This listing is based on inadequate evidence of carcinogenicity in humans

and sufficient evidence in experimental animals.

Eyes Inert foreign body hazard only.

SECTION4-FIRST AID MEASURES

Eye contact: In the case of contact with eyes, rinse immediately with plenty of water. If

symptoms persist, call a physician.

Skin contact: Wash skin with soap and water. Use of moisturizing may be helpful.

Ingestion: No adverse health effects anticipated by this route during proper industrial

handling. If accidentally swallowed, rinse mouth thoroughly with water and afterwards, drink plenty of water. In case of discomfort, obtain medical

attention.

Inhalation: In case product dust is released: Possible discomfort: cough, sneezing. Move

victims into fresh air.

SECTION 5-FIRE FIGHTING MEASURES

Flash point: Not flammable.

Suitable extinguishing media: No fire hazard.

Hazardous combustion products:No hazardous decomposition products.

Explosion data

Sensitivity to mechanical impact: Not applicable

Sensitivity to static discharge Not applicable

Protective equipment and precautions for firefighters As any fire, wear self-contained breathing

apparatus and full protective gear.

NFPA Health Hazard 1 Flammability 0 Stability 0

SECTION 6-ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid inhalation of dust by arranging adequate ventilation, or use an

appropriate dust mask. Avoid excessive contact with the skin.

Methods for containment: Prevent further leakage or spillage if safe to do so. Use dyking or absorbant to prevent run-off from entering waterways.

Methods for cleaning up: Use any feasible mechanical mean (e.g. vacuuming, sweeping) but

avoid dusting during clean up.

SECTION 7- HANDLING AND STORAGE

Handling Handle in accordance with good industrial hygiene and safety practice.

Avoid dust formation. Avoid contact with skin, eyes and clothing. Wash

hands thoroughly before eating, drinking or smoking.

Storage Keep container tightly closed in a dry and well-ventilated place. Store in

original container.

SECTION 8-EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Engineering measures Good natural ventilation will be sufficient in most circumstances. Local

exhaust ventilation may be necessary if airborne dust concentration

approaches the exposure limit(s).

Eye /face protection Safety glasses with side-shields. Goggles.

Skin and body protection Wear protective gloves/clothing.

exceeded.

Hygiene measures Individuals having sensitive skin may find it beneficial to use a barrier

cream or moisturizer when excessive or prolonged contact with the skin

is likely.

SECTION 9-PHYSICAL AND CHEMICAL PROPERTIES

Appearance White Odor None

Physical state Solid ph Not applicable

Flash point None Auto-ignition temperature Not applicable

Boiling point/boiling

range

Not applicable **Melting point/range** 1830°C

Explosion limits Not applicable Flammability Limits in air Not applicable

MSDS WHITE DCE 10281

Specific gravity 3.0- 3.4 g/cm³ **Molecular weight** Not applicable

Water solubility Insoluble in water Evaporation rate Not applicable

Vapor pressure Not applicable Vapor density Not applicable

VOC content(%) None

SECTION 10-STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Incompatible products None.

Conditions to avoid None.

Hazardous decomposition products None.

Hazardous polymerization Hazardous polymerization does not occur.

SECTION 11-TOXICOLOGICAL INFORMATION

Acute toxicity

Product information: These products do not present acute toxicity hazard nased on known or

supplied information.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Titanium dioxide	10000 mg/kg Oral LD50 (Rat)		
Aluminum hydroxide	5000 mg/kg Oral LD50 (Rat)		
Amorphous Silica	5000 mg/kg Oral LD50 (Rat)	2000 mg/kg dermal LD50(Rabbit)	

<u>Chronic Toxicity</u> Titanium dioxide is listed by IARC as possibly carcinogenic to humans (

Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficent evidence in experimental

animals.

Chemical name	ACGIH	IARC	NTP	OSHA
Titanium dioxide		2B		

Target organ effects In lifetime inhalation studies of rats, airborne respirable-size titanium

dioxide particle have been shown to cause lung tumors at concentrations

associated with substantial particle lung burdens and consequential pulmonary overload and inflammation. However, other laboratory animals such as mice and hamsters did not develop lung tumors under similar testing with titanium dioxide. Furthermore, human epidemiology studies do not suggest an association between occupational exposure to titanium dioxide and risk for cancer.

Section 12-ECOLOGICAL INFORMATION

Ecotoxicity

Available evidence indicates that titanium dioxide does not cause any significant adverse environmental effects

Chemical name	Toxicity to algae	Toxicity to fish	Microtox	Daphnia magna(water flea)
Amorphous silica	EC50 = 440 mg/L 72h	LC50= 5000 mg/L Brachydanio rerio 96 h		EC50=7600 mg/L 48h

Persistence and degradability Product is not biodegradable

Bioaccumulation /accumulation Does not bioaccumulate

Mobility There is no evidence of mobility of these products.

SECTION 13-DISPOSAL CONSIDERATIONS

Waste disposal methods This material, as supplied, is not a hazardous waste according to state

and federal regulations (40 CFR 261).

Contaminated packaging
Contaminated packages are not considered hazardous for disposal into

sanitary landfill or industrial waste disposal landfill. Please review

appropriate national and local waste regulations.

SECTION 14-TRANSPORT INFORMATION

<u>DOT</u>Not regulated<u>TDG</u>Not regulated

IMO Not regulated

SECTION 15-REGULATORY INFORMATION

SARA 313

These products do not contain any chemicals which are subject to the reporting requirements of the act and Title 40 of the Code of Federal Regulations, part 372.

CALIFORNIA PROPOSITION 65

None

WHMIS HAZARD CLASS

D2A Very toxic materials

SECTION 16-OTHER INFORMATION

Prepared by	Phone number	Date (last revision)
Technical Director	514-645-9559	June , 2011

Sources used

COOHS literature and supplier's MSDS

To the best of Starco Concentrates' knowledge, the aforementioned information is accurate as of the date of preparation. However, since the conditions of use of this product are not within the control of Starco Concentrates. It is the user's responsibility to determine the suitability of his particular purpose. Starco Concentrates assumes no obligation or liability regarding the accuracy of this data, or the results to be obtained from their use.