# **MATERIAL SAFETY DATA SHEET**

# **SECTION 1 - MATERIAL IDENTIFICATION AND USE**

Product: YELLOW DCE 20398

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
60-90	1317-65-3	Calcium carbonate	10 mg/m <sup>3</sup>	
0-2	21645-51-2	Aluminum hydroxide		
0-2	7631-86-9	Amorphous silica		
0-10	13463-67-7	Titanium dioxide	TWA :10 mg/m³ ( 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 If ingested, do not ingested do not inducing vomiting unless directed to do by

medical personnel. Low oral toxicity. Get medical attention.

Chronic Effects Prolonged dust inhalation may cause silicosis. Prolonged and excessive

inhalation of dust may lead to chronic pulmonary disease.

Eyes Nuisance dust, avoid chronic inhalation.

# **SECTION 4-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.

**Extinguishing media:** Carbon dioxide, water, foam or dry chemical

**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 Yellow Odor None

Physical state Powder ph Not applicable

Flash point None Auto-ignition temperature Not applicable

Boiling point/boiling Not applicable Melting point/range Not determined

range

Explosion limits Not applicable Flammability Limits in air Not applicable

**Specific gravity** 1.68 g/cm³ **Molecular weight** Not applicable

Water solubility Slightly soluble 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 Aluminum and aluminum salts. Reacts with strong

acids to liberate carbon dioxide.

Conditions to avoid Contact with incompatible substances.

Hazardous decomposition products Carbon dioxide and calcium oxide.

Hazardous polymerization Hazardous polymerization does not occur.

# **SECTION 11-TOXICOLOGICAL INFORMATION**

# **Acute toxicity**

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

supplied information.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Calcium carbonate	2000-6450 mg/kg Oral LD50 ( Rat )		
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 )	

**Chronic Toxicity** 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

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

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**

**DOT** Not regulated

TDG Not regulated

<u>IMO</u> Not regulated

# **SECTION 15-REGULATORY INFORMATION**

**CEPA** status

All components of this product are on the Canadian List

# WHMIS HAZARD CLASS

D2B Toxic materials

#### **NFPA**

Health	1
Flammability	0
Physical Hazard	0

#### **HMIS**

Health	1
Flammability	0
Physical Hazard	0

# **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.