MATERIAL SAFETY DATA SHEET

SECTION 1 - MATERIAL IDENTIFICATION AND USE

Product: BROWN DCE 40892

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
10-30	1317-65-3	Calcium carbonate	10 mg/m ³	
<0.06	14808-60-7	Crystalline silica	0.05 mg/m ³	
7 - 18	1309-37-1	Iron(III) oxide	10 mg/m ³	
55-70	68187-51-9	Zinc ferrite		

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. Get medical attention.

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

inhalation of dust may lead to chronic pulmonary disease.

Eyes Inert foreign body hazard only.

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.

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

AppearanceBrownOdorNone

Physical state Solid ph Not applicable

Flash point None Auto-ignition temperature Not applicable

Boiling point/boiling

range

Not applicable

Melting point/range

> 800 °C

Explosion limits Not applicable Flammability Limits in air Not applicable

Specific gravity 2.9 - 3.1 g/cm³ **Molecular weight** Not applicable

Water solubility < 0.5 mg/100 mg 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)		
Iron(III) oxide	>5000 mg/kg Oral LD50 (Rat)	5500 mg/kg Dermal LD50 (Rat)	
Zinc ferrite	>2000 mg/kg Oral LD50 (Rat)		

Carcinogenicity effects IARC has concluded that there is sufficient evidence in humans for the

carcinogenicity of inhaled crystalline silica in the form of quartz from

occupational sources

Reproductive effects Not available

Teratogenicity Not available

Mutagenicity Not available

Synergistic Materials Not available

Section 12-ECOLOGICAL INFORMATION

Ecotoxicity

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

Chemical name	Toxicity to algae	Toxicity to fish	Microtox	Daphnia magna(water flea)
Zinc ferrite		LC50= 1000 mg/L (Golden orfe)	EC50:>1000 mg/l	EC50>1000 mg/L
			(pseudomonas putida)	
Iron(III) oxide		LC50> 1000 mg/L (Golden orfe)	EC50:>1000 mg/l	EC50>10000 mg/L
			(pseudomonas fluorescens(24h)	

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

DOTNot regulatedTDGNot regulatedIMONot regulated

SECTION 15-REGULATORY INFORMATION

CEPA status All components of this product are on the Canadian List

WHMIS HAZARD CLASS

D2A Very 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.