MATERIAL SAFETY DATA SHEET

SECTION 1 - MATERIAL IDENTIFICATION AND USE

Product : **BROWN DCE 40849**

Manufacturer's name : ST**ARCO 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, masterbatch	Coloration of PVC compounds

SECTION 2 – COMPOSITION/INFORAMATION ON INGREDIENTS

% Weight	CAS number	Ingredient	Units OSHA	Vapor pressure
4-10	1317-65-3	Calcium carbonate	10 mg/m^3	
<0.06	14808-60-7	Crystalline silica	0.05 mg/m^3	
65-85	68186-90-3	Chrome antimony titanium buff	0.5 mg/m^3	
5-15	1309-37-1	Iron oxide	5 mg/m^3	

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 aggravate 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 absorbent 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.
Respiratory protection	Use NIOSH approved dust HEPA-type respirator if limit(s) is or may be 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	Brown	**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**	> 800 °C
Explosion limits	Not applicable	**Flammability Limits in air**	Not applicable
Specific gravity	2.6 - 3.4 g/cm^3	**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)	

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)
Iron(III) oxide		LC50> 1000 mg/L (Golden orfe)	EC50:>1000 mg/l (pseudomonas fluorescens(24h)	EC50>10000 mg/L

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

IMO Not 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	September , 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.