

STD BROWN; 1%

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SECTION 1. IDENTIFICATION

Identification of the	Clariant Plastics and Coatings
company:	Canada Inc.
	2 Lone Oak Court
	Toronto, Ontario M9C 5R9,
	Telephone No.: +1 416-847-7000
	Information of the substance/preparation:
	BU Masterbatches
	Product Stewardship, +1-704-331-7710
	e-mail: SDS.NORAM@clariant.com
	Emergency tel. number: 800-424-9300 (CHEMTREC)
Trade name:	STD BROWN; 1%
Material number:	EM84765600
Svnonvms:	06DBS-1159

Chemical family: 06DBS-1159 Chemical family: Colourant preparation Carrier: -

Primary product use: Additive for plastic material processing

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

Hazards Not Otherwise Classified: If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

: Colourant preparation Carrier: -

Components

Chemical name	CAS-No.	Concentration (% w/w)
Triiron tetraoxide	1317-61-9	1 - 5
Calcium carbonate	471-34-1	5 - 10
N,N'-Ethylenedi(stearamide)	110-30-5	10 - 30

Any concentration shown as a range is due to batch variation.



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CTION 4. FIRST AID MEASUF	RES
lf inhaled	 Move the victim to fresh air. Give oxygen or artificial respiration if needed. Get immediate medical advice/ attention. Never give anything by mouth to an unconscious person.
In case of skin contact	 Wash off immediately with plenty of water for at least 15 minutes. Wash off with soap and water. Get medical attention if irritation develops and persists.
In case of eye contact	 Rinse immediately with plenty of water, also under the eyelic for at least 15 minutes. Get medical attention immediately if irritation develops and persists.
If swallowed	 Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical advice/ attention.
Most important symptoms and effects, both acute and	: The possible symptoms known are those derived from the labelling (see section 2).

delayed	No additional symptoms are known.

Notes to physician	: Treat symptomatically.
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SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during firefighting	:	In case of fire hazardous decomposition products may be produced such as: Metal oxides
Further information	:	Combustible material In the event of fire and/or explosion do not breathe fumes. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Do not allow run-off from fire fighting to enter drains or water courses.



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	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.	
Special protective equipment : for firefighters	Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.	
SECTION 6. ACCIDENTAL RELEAS	E MEASURES	
Personal precautions, : protective equipment and emergency procedures	Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.	
Environmental precautions :	Do not allow contact with soil, surface or ground water. Prevent product from entering drains.	
Methods and materials for : containment and cleaning up	Non-sparking tools should be used. Avoid dust formation. Take measures to prevent the build up of electrostatic charge. Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.	

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Take measures to prevent the build up of electrostatic charge.
Advice on safe handling	:	 Handle in accordance with good industrial hygiene and safety practice. Use only with adequate ventilation/personal protection. For personal protection see section 8. Avoid contact with skin, eyes and clothing. Use only with adequate ventilation. Avoid dust formation. Take measures to prevent the build up of electrostatic charge. Ensure all equipment is electrically grounded before beginning transfer operations. Use only non-sparking tools.
Conditions for safe storage	:	Keep container tightly closed in a cool, well-ventilated place. Protect from moisture. Keep away from direct sunlight.
Further information on storage conditions	:	Store in a cool, dry, well-ventilated area. Keep container sealed when not in use. Keep in an area equipped with sprinklers. Minimize dust generation and accumulation.
Materials to avoid	:	not required



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components		CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
N,N'-Ethylenedi(stearamide)		110-30-5	TWA	10 mg/m3	CA AB OEL
			TWA	10 mg/m3	CA BC OEL
			TWA (Inhalable fraction)	10 mg/m3	ACGIH
			TWA (Respirable fraction)	3 mg/m3	ACGIH
Calcium carbonate		471-34-1	TWAEV (total dust)	10 mg/m3	CA QC OEL
Engineering measures : Use only in area provided with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Use engineering controls such as local or general exhaust to maintain airborne concentrations below exposure limits. Personal protective equipment Second Provide appropriate exhaust places where dust can be generated.					ry and at exhaust to
Respiratory protection	:	If dusty conditions exist, use NIOSH approved respirator with high efficiency (p-100) filter media.			
Hand protection Remarks	:	Nitrile rubber gloves. Impervious butyl rubber gloves PVC Neoprene gloves			
Eye protection	:	Safety glasses with side-shields			
Skin and body protection	:	Wear protective clothing, including long sleeves and gloves, to prevent skin contact.			
Hygiene measures	:	The usual Industrial Hygiene precautions must be taken during work, in particular: do not drink, eat or smoke during the handling of the product and clean hands and face during work intervals and after work.			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Colour	:	brown

- Odour : characteristic



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Odour Threshold	:	Not applicable
рН	:	Not applicable
Melting point	:	Not applicable
Boiling point	:	Not applicable
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	not determined
Self-ignition	:	Not applicable
Upper explosion limit / upper flammability limit	:	not tested.
Lower explosion limit / Lower flammability limit	:	not tested.
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Relative density	:	not available
Density	:	not tested.
Solubility(ies) Water solubility	:	not determined
Partition coefficient: n- octanol/water	:	This property is not applicable for mixtures.
Decomposition temperature	:	To the best of our current knowledge, no thermal decomposition of the product is expected if it is processed according to good manufacturing practices. See section 10.4. "Conditions to avoid"
Viscosity Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
Explosive properties	:	no data available no data available
Oxidizing properties	:	not available
Surface tension	:	Not relevant





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Particle size	:	Product specific
CTION 10. STABILITY AND RE	AC	ΓΙVΙΤΥ
Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	To avoid thermal decomposition, do not overheat. Heating can release hazardous gases. Keep away from heat, sparks, open flames, and other sources of ignition. If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.
Incompatible materials	:	not known
Hazardous decomposition products	:	Possible in traces: Nitrogen oxides (NOx)

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely route Inhalation Eye contact Skin contact	s of e	exposure
Acute toxicity		
Product: Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Components:		
Triiron tetraoxide:		
Acute oral toxicity	:	LD50 (Rat, male): > 10,000 mg/kg Method: Other
Acute inhalation toxicity	:	LC50 (Rat): > 95,8 mg/m ³ Exposure time: 120 h Test atmosphere: vapour Method: Other
Acute dermal toxicity	:	Remarks: no data available



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N,N'-Ethylenedi(stearamide):

	-	
Acute oral toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 6.3 mg/l Test atmosphere: dust/mist Method: OECD Test Guideline 403
Acute dermal toxicity	:	LD50 (Rabbit, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

Result: No skin irritation

Components:

Triiron tetraoxide:

Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation GLP: yes

N,N'-Ethylenedi(stearamide):

Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation

Serious eye damage/eye irritation

Product:

Result: No eye irritation

Components:

Triiron tetraoxide:

Species: Rabbit Result: No eye irritation Method: OECD Test Guideline 405 GLP: yes

N,N'-Ethylenedi(stearamide):

Species: Rabbit Result: No eye irritation Method: OECD Test Guideline 405



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Respiratory or skin sensitisation

Product:

Result: non-sensitizing

Components:

Triiron tetraoxide:

Test Type: Maurer optimisation test Species: Guinea pig Method: Other Result: Does not cause skin sensitisation.

N,N'-Ethylenedi(stearamide):

Species: Mouse Method: OECD Test Guideline 429 Result: Not a skin sensitizer.

Germ cell mutagenicity

Components:

Triiron tetraoxide:

Genotoxicity in vitro :	Test Type: Ames test Method: Other Result: negative
	Test Type: In vitro cytogenicity study in mammalian cells Test system: Chinese hamster fibroblasts Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative GLP: yes
	Test Type: In vitro gene mutation study in mammalian cells Test system: Chinese hamster fibroblasts Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative GLP: yes
Germ cell mutagenicity - : Assessment	In vitro tests did not show mutagenic effects
N,N'-Ethylenedi(stearamide):	
Genotoxicity in vitro :	Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative

Test Type: Chromosome aberration test in vitro

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	Test system: Chinese hamster lung cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative
	Test Type: Mammalian cell gene mutation assay Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative
Germ cell mutagenicity - : Assessment	In vitro tests did not show mutagenic effects
Carcinogenicity	
Components:	
Triiron tetraoxide: Species: Rat, (male and female) Application Route: intratracheal Exposure time: 798 days Dose: 10 - 40 mg/kg body weight Method: Other Remarks: Not applicable	
Carcinogenicity - : Assessment	Not classifiable as a human carcinogen.
N,N'-Ethylenedi(stearamide):	
Carcinogenicity - : Assessment	No information available.
Reproductive toxicity	
<u>Components:</u>	
Triiron tetraoxide:	
Reproductive toxicity - : Assessment	No information available.
N,N'-Ethylenedi(stearamide):	
Effects on foetal : development	Test Type: Pre-natal Species: Rat Strain: Sprague-Dawley Application Route: oral (gavage) General Toxicity Maternal: NOAEL: >= 1,000 mg/kg body weight Method: OECD Test Guideline 414
Reproductive toxicity - :	No evidence of adverse effects on sexual function and fertility



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STOT - single exposure

Components:

Triiron tetraoxide:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

N,N'-Ethylenedi(stearamide):

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Components:

Triiron tetraoxide:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

N,N'-Ethylenedi(stearamide):

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

Triiron tetraoxide:

Species: Rat, male NOAEL: 10,1 mg/m³ Application Route: Inhalation Exposure time: 4 weeks Number of exposures: 6 h/day 5 days/week Dose: 10,1; 19,7; 45,6; 95,8 mg/m³ Method: OECD Test Guideline 412 GLP: yes

N,N'-Ethylenedi(stearamide):

Species: Rat, male and female NOEL: >= 1000 mg/kg bw/day Application Route: oral (gavage) Method: OECD Test Guideline 408

Aspiration toxicity

Components:

Triiron tetraoxide:

no data available



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N,N'-Ethylenedi(stearamide):	
no data available	
Experience with human expos	sure
Product:	
General Information	The possible symptoms known are those derived from the labelling (see section 2).
ECTION 12. ECOLOGICAL INFOR	MATION
Ecotoxicity	
Product:	
Toxicity to fish	
	Remarks: no data available
Components:	
Triiron tetraoxide:	
Toxicity to fish	Other (Danio rerio (zebra fish)): >= 10,000 mg/l Exposure time: 96 h Test Type: static test Method: Tested according to Directive 92/69/EEC.
	GLP: yes
Toxicity to daphnia and other : aquatic invertebrates	Other (Daphnia magna (Water flea)): >= 10,000 mg/l Exposure time: 48 h
aqualic invertebrates	Test Type: static test
	Method: Tested according to Directive 92/69/EEC. GLP: yes
Toxicity to algae/aquatic	Exposure time:
plants	Remarks: no data available
Toxicity to fish (Chronic : toxicity)	Remarks: no data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	Remarks: no data available
N,N'-Ethylenedi(stearamide):	
Toxicity to fish	LC50 (Oryzias latipes (Orange-red killifish)): 0.027 mg/l End point: mortality Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): 0.0022 mg/l Exposure time: 48 h



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T	
Method: OECD	ni-static test Test Guideline 202 oxicity at the limit of solubility
plants Exposure time: Method: OECD	kirchneriella subcapitata (algae)): 0.053 mg/l 72 h Test Guideline 201 oxicity at the limit of solubility
Toxicity to fish (Chronic : Remarks: no da toxicity)	ata available
aquatic invertebratesExposure time:(Chronic toxicity)Method: OECD	magna (Water flea)): 0.0056 mg/l 21 d Test Guideline 211 oxicity at the limit of solubility
Exposure time: Test Type: stat	
organisms Exposure time:	fetida (earthworms)): >= 1,000 mg/kg 56 d Test Guideline 222
Test Type: stat Sediment: Artifi Exposure durat	cial sediment
Persistence and degradability	
Components:	
N,N'-Ethylenedi(stearamide):	
Biodegradability : aerobic Inoculum: activ Carbon dioxide Result: Not rea Biodegradation: Exposure time:	(CO2) dily biodegradable. 5.5 %
Bioaccumulative potential	
Product:	
Bioaccumulation : Remarks: not to	ested.
Components:	
Triiron tetraoxide:	



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Partition coefficient: n- octanol/water	:	Remarks: not determined
N,N'-Ethylenedi(stearamide	e):	
Bioaccumulation	:	Remarks: Bioaccumulation is unlikely.
Partition coefficient: n- octanol/water	:	Remarks: Not applicable
Mobility in soil		
Product:		
Distribution among environmental compartments	: s	Remarks: not tested.
Components:		
N,N'-Ethylenedi(stearamide	e):	
Distribution among environmental compartments		log Koc: 8.6 - 8.91 Method: calculated
Other adverse effects		
Product:		
Results of PBT and vPvB assessment	:	Remarks: No information is available as no chemical safety report (CSR) is required.
Additional ecological information	:	Do not allow to enter ground water, waterways or waste wa
Components:		
Triiron tetraoxide:		
Results of PBT and vPvB assessment	:	The substance is not identified as a PBT or as a vPvB substance.
N,N'-Ethylenedi(stearamide	e):	
Results of PBT and vPvB assessment	:	The substance is not identified as a PBT or as a vPvB substance.

Disposal	methods
Dispusai	memous

Waste from residues	:	Dispose of this product in accordance with all applicable local, state and federal regulations.
Contaminated packaging	:	Regulations concerning reuse or disposal of used packaging materials must be observed.



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SECTION 14. TRANSPORT INFORMATION

TDG	not restricted
ΙΑΤΑ	not restricted
IMDG	not restricted

SECTION 15. REGULATORY INFORMATION

NPRI Components	:	Zinc compounds
The components of this product are reported in the following inventories:		
DSL	:	All components of this product are on the Canadian DSL

Canadian lists

No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

		USA. ACGIH Threshold Limit Values (TLV) Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL CA QC OEL		Canada. British Columbia OEL Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
CA AB OEL / TWA CA BC OEL / TWA	:	8-hour, time-weighted average 8-hour Occupational exposure limit 8-hour time weighted average Time-weighted average exposure value

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 -Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch -



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Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZloC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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