a duct no mo	Tonor contriduo V d Color ME220 200
Product name:	Toner cartridge Y d-Color MF220-280
ode number:	B0855
roduct description:	Yellow toner
Company name:	Olivetti S.p.A.
	Via Jervis 77 10015 Ivrea (TO) - ITALY
For information:	Tel. 0039 (0)125 775710
	Fax 0039 (0)125 775711 e-mail : <u>supplies@olivetti.com</u>
	o mail : <u>oupproductiventoonn</u>
or emergency:	Centro Antiveleni-Ospedale Niguarda (Milano) 0039 (0)2 66101029

2. Hazards identific	ation		
Classification: Not class	ified as dangerous in acco	cording to the Regulation EC n°1272/2008	
LABEL ELEMENTS			
Signal v Hazard	tionary pictograms word: Statement: tionary Statements	 	
Specific Hazards:	Dust explosion (like m	most finely divided organic powders)	



	4. First - aid measures		
4. First – aid mea			
Ingestion:	Wash out mouth with water. Drink one or two glasses of water. If symptoms occur, get medical attention.		
Inhalation:	Move victim to fresh air immediately. If symptoms occur, get medical attention.		
Eye contact:	Immediately flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention.		
Skin contact:	Wash with water and mild soap.		

5. Fire - fighting measures	
Suitable Extinguishing Media:	CO2, water spray, foam and dry chemical.
Suitable Extinguishing Media to Avoid:	Full water jet
Fire and Explosion Hazards:	If dispersed in air, like most finely divided organic powders, may form an explosive mixture.
Protection of fire-fighters:	Use self-contained breathing apparatus (SCBA)



6. Accidental release measures	
Personal precautions:	None
Environmental precautions:	None.
Methods for Cleaning-up:	Wear personal protective equipment (See Section 8).Vacuum or sweep material and place in a bag and hold for waste disposal. Use vacuum equipped with High Efficiency Particulate Air(HEPA) filter. Vacuum should be electrically bonded and grounded to dispel static electricity. To avoid dust generation, do not sweep dry.

7. Handl	ing and storage	
Handling:		
	Technical Measures:	None
	Precautions:	Do not breathe dust.
		Avoid contact with eyes.
	Safe Handling Advice:	Try not to disperse the particulates.
Storage:		
	Technical Measures:	None
	Storage Conditions:	Keep container closed. Store in a cool and dry place.
	-	Keep out of reach of children.
	Incompatible Products:	None
	Packaging Materials:	Bottles or Cartridge designated



8. Exposure controls/personal protection		
Ventilation:	None required with intended use	
Hygiene measures:	Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.	
Control Parameters (As total dust) ACGIH-TLV (USA): OSHA-PEL (USA): DFG-MAK (GER): Worksafe-TWA (Austl.): Control Parameters (Titanium	10mg/m3(Inhalable particles), 3.0 mg/m3 (Respirable particles) 15mg/m3(Total dusts), 5.0 mg/m3(Respirable fraction) 4mg/m3(Inhalable fraction), 1.5mg/m3 (Respirable fraction) 10mg/m3	
dioxide) ACGIH-TLV (USA): OSHA Z-Table (USA): Worksafe-TWA (Austl.):	10mg/m3 15mg/m3 10mg/m3	
Personal Protective Equipment	Not required under normal conditions. For use other than in normal operating procedures (such as in the event of large spill), goggles and respirators may be required.	

9. Physical and chemical properties

Physical state:	Solid	
Form:	Powder (mean dia. Is 5-10 um by volume)	
Color:	Yellow	
рН	Not applicable	
Odor:	Almost odorless	
Boiling point (°C)	Not applicable	
Melting point (°C / [F]):	Around No data available	
Flash Point (°C):	Not applicable	
Auto-Ignition Temperature (°C)	No data available	
Vapor Pressure:	Not applicable	
Vapor density:	Not applicable	
Specific Gravity:	1,2 g/cm3	
Solubility:	Insoluble in water	
Partition Coefficient, n-Octanol/Water:	Not applicable	
Decomposition temperature:	Not applicable	



10. Stability and reactivity	
Stability:	Stable except above 200 °C (392 F).
Hazardous Reactions:	Dust explosion, like most finely divided organic powders.
Conditions to avoid:	Electric discharge, throwing into fire.
Materials to Avoid:	Oxidizing materials.
Hazardous decomposition products:	CO, CO ₂ , NO _X and smoke.
Hazardous Polymerization:	Will not occur.



Material Safety Data Sheet

In according to the Regulation (CE) n. 1907/2006 REACH

Printing: 15/09/2009 Data sheet: B0855in Rev. n. 1 - data Rev. Date: 23/11/2018

11. Toxicological information

Acute Toxicity:

Ingestion(oral), LD50(mg/kg): >2500 (Rat) Dermal, LD50(mg/kg): no data available Inhalation, LC50(mg/l): >5.09 (Rat,4hour) (This was the highest attainable concentration) Eye irritation: Minimal irritant (Rabbit) Skin irritation: Non irritant (Rabbit)

Skin sensitizer: Non sensitizer (Guinea pig)

Local Effects: see Chronic Toxicity or Long term Toxicity

Chronic Toxicity or Long Term Toxicity:

In a two-year inhalation study of chronic toxicity and carcinogenicity using a typical toner in rats, there were no lung changes at all in the lowest exposure level (1mg/m3), the most relevant level to potential human exposures. A minimal to mild degree of fibrosis was noted in 22% of the animals at the middle exposure level (4mg/m3), and a mild to moderate degree of fibrosis was observed in 92% of the rats at the highest exposure level(16mg/m3). The lung changes observed in the higher exposure groups are interpreted in terms of "lung overloading", a series of generic responses to the presence of large quantities of respirable, insoluble and relatively benign dusts retained for extended time periods in the lungs. Lung tumor frequency was unchanged among rats exposed to toner at the three exposure levels, and for air-only control rats.

Carcinogenicity:

The IARC reevaluated titanium dioxide as a Group 2B carcinogen (possible human carcinogen). In animal chronic inhalation studies, the tumor formulation observed in only rats with animal chronic inhalation study are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Use of this product, as intended, dose not result in inhalation of excessive dust. Epidemiological study to date have not revealed any evidence of the relation between exposure to titanium dioxide and diseases of the respiratory tract beyond general effects of dust.

Mutagenicity: Negative(AMES test) Teratogenicity: no data available



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12. Ecological information

No data are available on the adverse effects of this material on the environment.

Ecotoxicity: No data available Mobility: No data available Persistence and degradability: No data available Bioaccumulative potential: No data available

13. Disposal considerations

When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method.

14. Transport information

Information on Code and Classifications According to International Regulations

UN Classification: None

15. Regulatory information

EU regulations

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer, Annex I and Annex II: Not listed

Regulation (EC) No 850/2004 on persistent organic pollutants, Annex I as amended: Not listed

Regulation (EC) No 689/2008 concerning the export and import of dangerous chemicals, Annex I and Annex V as amended: Not listed.

Regulation (EC) No 1907/2006 REACH, Annex XVII as amended (Restrictions on use): Not listed.

Regulation (EC) No 1907/2006 REACH, Annex XIV as amended (Authorisations): Not listed.



6. Other information	
This Material Safety Data She Regulation EC n°1272/2008 a	et was prepared in according to the Regulation (CE) n. 1907/2006 REACH nd Regulation 830/2015.
Changes from the previous ve	rsion:
- update section n. 2-3-4-5-6-2	7-8-9-10-11-12-13-14-15-16
Explanation of term: IARC 2B r Abbreviations:	neans "possible human carcinogen".
ACGIH-TWA: Threshold Limit \	Value of American Conference of Government Industrial Hygienists of Existing Commercial Chemical Substances
IARC: International Agency for	
OEL: Occupational exposure lin OSHA: Occupational Safety an	nd Health Administration
PBT: Persistent, Bioaccumulati vPvB: very Persistent and very	
Revision Information: Regular r	
Literature References:	
ANSI Z400.1-1993 ISO 11014-1	
Commission Directive 91/155/E	EEC
Carbon Black, Titanium Dioxide	
H.Muhle, B.Bellmann, O.Cre U.Mohr, S.Takenaka, and R.Me	eutzenberg, C.Dasenbrock, H.Ernst, R.Kilpper, J.C.MacKenzie, P.Morrow ermelstein(1991)
	ner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied
Toxicology 17, pp.280-299. NIOSH CURRENT INTELLIGE for Occupational Exposure to T	NCE BULLETIN :Evaluation of Health Hazard and Recommendation
to Our Corporation. However,	eved to be accurate and represents the best information currently available , Our Corporation makes no warranty with respect to such information, and liability resulting from its use. Users should make their own investigation to

