



	50,01,2010
1 Identification	
Product identifier	
Product name: Radglo GM-10 Chartreuse	
Stock number: H36123 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet Manufacturer/Supplier: Alfa Aesar	
Thermo Fisher Scientific Chemicals, Inc.	
30 Bond Street Ward Hill, MA 01835-8099	
Tel: 800-343-0660 Fax: 800-322-4757	
Email: tech@alfa.com www.alfa.com	
Information Department: Health, Safety and Environmental Department	
Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.	
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
The product is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known.	
Label elements GHS label elements Not applicable	
Hazard pictograms Not applicable Signal word Not applicable	
Hazard statements Not applicable WHMIS classification Not controlled	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1	
FIRe I Flammability = 1 REACTIVITY Physical Hazard = 1	
Other hazards	
Results of PBT and vPvB assessment PBT: Not applicable.	
vPvB: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Mixtures	
Dangerous components: Not applicable Additional information None known.	
Non-Hazardous Ingredients	00.05%
Polycondensation resin of benzoguanamine and paraformaldehyde, colored with organic dyestuffs 50-00-0 Formaldehyde	99.95% 0.05%
4 First-aid measures	
2 Prist-ald measures Description of first aid measures	
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.	l
Seek immediate medical advice.	I
After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.	I
After eve contact Rinse opened eve for several minutes under running water. Then consult a doctor	I
After swallowing Seek medical treatment.	I
Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available.	I
Indication of any immediate medical attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures	
Extinguishing media Suitable extinguishing agents Carbon diavide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant feam	
Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture	
If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide	
Nitrogen oxides (NOx) Formaldehyde	
Advice for firefighters	
Protective equipment: Wear self-contained respirator.	
Wear fully protective impervious suit.	
6 Accidental release measures	
Personal precautions, protective equipment and emergency procedures	
Wear protective equipment. Keep unprotected persons away.	
Environmental precautions: Do not allow material to be released to the environment without proper governmental permits.	d. on page 2)
(USA -

			100/01/2013
Product name: F	Radglo GM-10 Chart	reuse	
Prevention o Reference to See Section 7 See Section 8	I material for containmen f secondary hazards: No other sections 7 for information on safe ha 6 for information on person 3 for disposal information	nal protection equipment.	(Contd. of page 1)
Keep containe Store in cool, Information a Conditions fo Storage Requirement Information a Further infor Keep containe	for safe handling er tightly sealed. dry place in tightly closed about protection against or safe storage, including is to be met by storeroom	explosions and fires: No information known. g any incompatibilities ns and receptacles: No special requirements. nmon storage facility: Store away from oxidizing agents. nditions:	
Additional in			
Components	with limit values that re	quire monitoring at the workplace:	
	aldehyde (0.05%) Short-term value: 2 ppm		
PEL (USA) REL (USA)	Long-term value: 0.75 pp see 29 CFR 1910.1048(c Long-term value: 0.016 p Ceiling limit value: 0.1* p) pm om	
TLV (USA)	*15-min; See Pocket Guid Ceiling limit value: 0.37 m	de App. A	
·	SEN Short-term value: C 1 ppr Long-term value: 0.3 ppr ACGIH A2; IARC 1; S	n	
EV (Canada)	ACGIH A2; IARC 1; S Short-term value: 1.0 ppn		
	formation: No data		
General prote The usual pre Keep away fro Remove all so Wash hands I Maintain an e Breathing eq Protection of Impervious glu Check protect The selection Penetration t	tective equipment ective and hygienic mea- cautionary measures for h for foodstuffs, beverages a biled and contaminated clo before breaks and at the e rgonomically appropriate v uipment: Use suitable res f hands: oves tive gloves prior to each us of suitable gloves pot on b	andling chemicals should be followed. and feed. nd of work. working environment. spirator when high concentrations are present. se for their proper condition. / depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. minutes) Not determined	
9 Physical an	d chemical properties	5	
Information of General Infor Appearance: Form: Color: Odor: Odor thresho		emical properties Powder Yellow Not determined Not determined.	
pH-value:	ли.	Not determined. Not applicable.	
Change in co Melting poi Boiling poi Sublimation Flammability Ignition temp	int/Melting range: nt/Boiling range: n temperature / start: (solid, gaseous) perature: on temperature:	Not applicable. Not determined Not determined Not determined. Not determined Not determined Product is not selfigniting.	
Danger of ex Explosion lin Lower: Upper: Vapor pressu Density at 20 Relative densi Vapor densit Evaporation Solubility in Water:	hits: ıre: º°C (68 °F): sity v	Not determined. Not determined Not determined Not applicable. 1.3 g/cm ³ (10.849 lbs/gal) Not determined. Not applicable. Not applicable. Insoluble	
L			(Contd. on page 3)

	Reviewed on 05/07/201
Product name: Radglo GM-10 C	Chartreuse
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Partition coefficient (n-octanol/	
Viscosity: dynamic:	Not applicable.
kinematic:	Not applicable.
Solvent content: Organic solvents:	0.1 %
Other information	No further relevant information available.
) Stability and reactivity	
Reactivity No information known.	'n
Chemical stability Stable under	 recommended storage conditions. l itions to be avoided: Decomposition will not occur if used and stored according to specifications.
Possibility of hazardous reaction	ions Reacts with strong oxidizing agents
Conditions to avoid No further ro Incompatible materials: Oxidizir	ing agents
Hazardous decomposition proc Carbon monoxide and carbon dio	ducis:
Nitrogen oxides Formaldehyde	
-	
11 Toxicological information	
Information on toxicological eff Acute toxicity: No effects known	n.
LD/LC50 values that are relevan	
50-00-0 Formaldehyde Oral LD50 42 mg/kg (m	ກດມເຊຍ
100 mg/kg (i	(rat)
Inhalative LC50 203 mg/m3 (LC50/4H 454 mg/m3/-	
Skin irritation or corrosion: May	ay cause irritation
Eye irritation or corrosion: May Sensitization: No sensitizing effe	ects known.
Germ cell mutagenicity: No effe Carcinogenicity:	
This product contains a substance	ce or substances listed as a carcinogen by one or more of the following agencies; IARC, NTP, OSHA, ACGIH and EPA. Since this
Reproductive toxicity: No effect	
Specific target organ system to Specific target organ system to	oxicity - repeated exposure: No effects known. oxicity - single exposure: No effects known.
Aspiration hazard: No effects kn	nown.
Subacute to chronic toxicity: N Additional toxicological informa	nation:
To the best of our knowledge une The product is not subject to class	e acute and chronic toxicity of this substance is not fully known. ssification according to internally approved calculation methods for preparations.
12 Ecological information	
Toxicity	
Aquatic toxicity: No further relev	vant information available. No further relevant information available.
Bioaccumulative potential No fu	further relevant information available.
Mobility in soil No further relevant Additional ecological information	
General notes:	sed to the environment without proper governmental permits.
Do not allow undiluted product or	r large quantities to reach ground water, water course or sewage system. nt.
Results of PBT and vPvB asses	int. ssment
PBT: Not applicable. vPvB: Not applicable.	
Other adverse effects No further	r relevant information available.
13 Disposal considerations	
Waste treatment methods	e e e e e e e e e e e e e e e e e e e
Uncleaned packagings:	e, local or national regulations to ensure proper disposal.
Recommendation: Disposal mus	ist be made according to official regulations.
14 Transport information	
UN-Number DOT ADN IMDG IATA	Not applicable
DOT, ADN, IMDG, IATA UN proper shipping name	
DOT, ADN, IMDG, IATA	
	Not applicable
Transport hazard class(es)	Not applicable
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class Packing group	Not applicable
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class Packing group DOT, IMDG, IATA	
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class Packing group	Not applicable
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class Packing group DOT, IMDG, IATA Environmental hazards:	Not applicable Not applicable
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class Packing group DOT, IMDG, IATA Environmental hazards: Marine pollutant (IMDG): Special precautions for user	Not applicable Not applicable No

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Transport/Additional information:	
DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	-
E Degulatory information	
5 Regulatory information	
Safety, health and environmental regulations/I GHS label elements Not applicable	legislation specific for the substance or mixture
Hazard pictograms Not applicable	
Signal word Not applicable	
Hazard statements Not applicable	
National regulations	al Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict
to research and development only. This product n	al Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restri nust be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This
product must not be used for commercial purpose	es or in formulations for commercial purposes.
Some or all of the components of this product are	not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List
(NDSL).	
SARA Section 313 (specific toxic chemical list	
50-00-0 Formaldehyde California Proposition 65	0.0
Prop 65 - Chemicals known to cause cancer	
50-00-0 Formaldehyde	0.0
	0.0
Prop 65 - Developmental toxicity	
None of the ingredients are listed.	
Prop 65 - Developmental toxicity, female	
None of the ingredients are listed.	
Prop 65 - Developmental toxicity, male	
None of the ingredients are listed.	
Information about limitation of use: For use on	ly by technically qualified individuals.
Other regulations, limitations and prohibitive i	
None of the ingredients are listed.	rding to the REACH Regulations (EC) No. 1907/2006.
<u> </u>	
market and use must be observed.	ticle 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on
None of the ingredients is listed.	
Annex XIV of the REACH Regulations (requiring	ig Authorisation for use)
None of the ingredients is listed.	2 .
Chemical safety assessment: A Chemical Safet	ty Assessment has not been carried out.
Other information	
	supplement to other information gathered by them, and should make independent judgement of suitability of this
information to ensure proper use and protect the l	health and safety of employees. This information is furnished without warranty, and any use of the product not
conformance with this Material Safety Data Sheet	t, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Dep	partment
Date of preparation / last revision 11/24/2015/	-
Abbreviations and acronyms:	reuses par Pouto (European Agrapment concerning the International Carriage of Dangarous Goods by Poad)
IMDG: International Maritime Code for Dangerous Goods	reuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
DOT: US Department of Transportation IATA: International Air Transport Association	
EINECS: European Inventory of Existing Commercial Chemical S	ubstances
CAS: Chemical Abstracts Service (division of the American Chem	ical Society)
HMIS: Hazardous Materials Identification System (USA)	
In TATA, International All Transport Association EINECS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chem HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Ca. LOSO: Lethal concentration, 50 percent	naua)
LD50: Lethal dose, 50 percent vPvB: verv Persistent and verv Bioaccumulative	
LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygieni OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	ists (USA)
NTP: National Toxicology Program (USA)	
IARC: International Agency for Research on Cancer	
Erra Environmentari recoulori Agency (USA)	