

H164 - FORMULA 2050

Revision nr. 12 Dated 13/03/2019

Printed on 21/03/2019

Page n. 1/13

Replaced revision:3 (Dated: 03/03/2017)

Safety Data Sheet

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: formula speciale 2050

H164 Product name

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified Uses Industrial Professional Consumer

BLADE & BIT CLEANER

1.3. Details of the supplier of the safety data sheet

Name **REYS SPA**

via Cesare Battisti 78 Full address District and Country 20862 Arcore (MB)

Italy

Tel. 0039 039 61341 Fax 0039 039 6180222

e-mail address of the competent person

schedesicurezza@revs.it responsible for the Safety Data Sheet

1.4. Emergency telephone number

0039 039 61341 (orario di ufficio) For urgent inquiries refer to

Centro Antiveleni di Milano 02 66101029 (CAV Ospedale Niguarda Ca` Granda -Milano)

(H24)

Centro Antiveleni di Pavia 0382 24444 (CAV IRCCS Fondazione Maugeri - Pavia) Centro Antiveleni di Bergamo 800 883300 (CAV Ospedali Riuniti - Bergamo) Centro Antiveleni di Firenze 055 7947819 (CAV Ospedale Careggi - Firenze) Centro Antiveleni di Roma 06 3054343 (CAV Policlinico Gemelli - Roma) Centro Antiveleni di Roma 06 49978000 (CAV Policlinico Umberto I - Roma) Centro Antiveleni di Napoli 081 7472870 (CAV Ospedale Cardarelli - Napoli)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Serious eye damage, category 1 H318 Causes serious eye damage.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.



H164 - FORMULA 2050

•

Revision nr. 12

Dated 13/03/2019

Printed on 21/03/2019

Page n. 2/13

Replaced revision:3 (Dated: 03/03/2017)

Hazard pictograms:



Signal words: Danger

Hazard statements:

H318 Causes serious eye damage.

Precautionary statements:

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

insing.

P280 Wear eye protection / face protection.

P310 Immediately call a POISON CENTER / doctor /

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

POTASSIUM CARBONATE

CAS 584-08-7 1 x < 5 Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335

EC 209-529-3 INDEX -

Reg. no. 01-2119532646-36

tetrasodium ethylene diamine

tetraacetate

CAS 64-02-8 0 x < 0.5 Met. Corr. 1 H290, Acute Tox. 4 H302, Acute Tox. 4 H332, STOT RE 2 H373,

Eye Dam. 1 H318

EC 200-573-9 INDEX 607-428-00-2 Reg. no. 01-2119486762-27

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures



Revision nr. 12

Dated 13/03/2019

Printed on 21/03/2019

Page n. 3/13

Replaced revision:3 (Dated: 03/03/2017)

H164 - FORMULA 2050

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITĂBLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up



Revision nr. 12

Dated 13/03/2019

Printed on 21/03/2019

Page n. 4/13

Replaced revision:3 (Dated: 03/03/2017)

H164 - FORMULA 2050

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА
		ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г
CZF	Česká Republika	Nařízení vlády č. 361/2007 Sh. kterým se stanoví podmínky ochra

ESP INSHT - Límites de exposición profesional para agentes químicos en España 2017 España

FRA France JORF nº0109 du 10 mai 2012 page 8773 texte n°102

GBR United Kingdom EH40/2005 Workplace exposure limits

POL Polska ROZPORZĄDZENIE MINISTRA RODZIN Y, PRAC Y I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r

ROU România Monitorul Oficial al României 44; 2012-01-19

Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive FU OEL EU

2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.

TLV-ACGIH **ACGIH 2018**

Reaction products of 1H-Imidazole-1-ethanol, 4,5-dihydro-, 2-(C7-C17 odd-numbered, C17-unsatd. alkyl) derivs. and sodium hydroxide and chloroacetic acid

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,0053	mg/l
Normal value in marine water	0,00053	mg/l
Normal value of STP microorganisms	6,6	mg/l

Normal value of STF microorga	11151115			0,0	IIIg	//I		
Health - Derived no-effect	level - DNEL / D	OMEL						
	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
				systemic		systemic		systemic
Oral			•	•			VND	0,39 mg/kg

CMT ORANGE		CMT Ute	ensili S.p.	Α.			Revision nr. 12 Dated 13/03/2019	
		H164 - FO	RMULA 2	050			Printed on 21/03/2019	
							Page n. 5/13	
							Replaced revision:3 (Date	ed: 03/03/2017)
Inhalation							VND	4,06 mg/m3
Skin			VND	3,85 mg/kg			VND	3,85 mg/kg
Tetrasodium ethylenediam	ninetetraacetate	e						
Threshold Limit Value Type	Country	TWA/8h		STEL/15min				
-71		mg/m3	ppm	mg/m3	ppm			
OEL	EU	3				RESF	D	
OEL	EU	10				INHA	L	
Predicted no-effect concentration	n - PNEC							
Normal value in fresh water				2,2	mg	j/l		
Normal value in marine water				0,22	mg	ı/l		
Normal value of STP microorgar	nisms			43	mg	g/l		
Normal value for the terrestrial c	ompartment			0,72	mg	g/l		
Health - Derived no-effect	Effects on	DMEL			Effects on			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	workers Acute local	Acute systemic	Chronic local	Chronic systemic
Oral	VND	25 mg/kg						
Threshold Limit Value		77114 (9)		OTF: 447				
Threshold Limit Value	Country	TWA/8h	DDM	STEL/15min	ppm			
Threshold Limit Value Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm			
Threshold Limit Value Type TLV	BGR	mg/m3	ppm	mg/m3	ppm			
Threshold Limit Value Type TLV TLV		mg/m3	ppm		ppm			
Threshold Limit Value Type TLV TLV VLA	BGR CZE	mg/m3	ppm	mg/m3	ppm			
Threshold Limit Value Type TLV TLV VLA VLEP	BGR CZE ESP	mg/m3	ppm	mg/m3 2 2	ppm			
Threshold Limit Value Type TLV TLV VLA VLEP	BGR CZE ESP FRA	mg/m3	ppm	mg/m3 2 2 2	ppm			
Threshold Limit Value Type TLV TLV VLA VLEP WEL NDS	BGR CZE ESP FRA GBR	mg/m3 2 1	ppm	mg/m3 2 2 2 2	ppm			
Threshold Limit Value Type TLV TLV VLA VLEP WEL NDS TLV-ACGIH	BGR CZE ESP FRA GBR POL level - DNEL / I	mg/m3 2 1 1 0,5	ppm	mg/m3 2 2 2 2 1	Effects on			
Threshold Limit Value Type TLV TLV VLA VLEP WEL NDS TLV-ACGIH Health - Derived no-effect	BGR CZE ESP FRA GBR POL	mg/m3 2 1 1 0,5		mg/m3 2 2 2 2 1 2 (C)		Acute	Chronic local	Chronic
Threshold Limit Value Type TLV TLV VLA VLEP WEL NDS TLV-ACGIH Health - Derived no-effect	BGR CZE ESP FRA GBR POL level - DNEL / I Effects on consumers	mg/m3 2 1 0,5 DMEL		2 2 2 2 1 1 2 (C)	Effects on workers	Acute systemic		Chronic systemic VND
Threshold Limit Value Type TLV TLV TLV VLA VLEP WEL NDS TLV-ACGIH Health - Derived no-effect Route of exposure Inhalation	BGR CZE ESP FRA GBR POL level - DNEL / I Effects on consumers	mg/m3 2 1 0,5 DMEL	Chronic local	mg/m3 2 2 2 2 1 2 (C)	Effects on workers			systemic
Threshold Limit Value Type TLV TLV TLV VLA VLEP WEL NDS TLV-ACGIH Health - Derived no-effect Route of exposure Inhalation SODIUM HYDROXIDE Threshold Limit Value	BGR CZE ESP FRA GBR POL level - DNEL / I Effects on consumers Acute local	mg/m3 2 1 0,5 DMEL Acute systemic	Chronic local	mg/m3 2 2 2 2 1 2 (C) Chronic systemic VND	Effects on workers			systemic
Threshold Limit Value Type TLV TLV TLV VLA VLEP WEL NDS TLV-ACGIH Health - Derived no-effect Route of exposure Inhalation SODIUM HYDROXIDE Threshold Limit Value	BGR CZE ESP FRA GBR POL level - DNEL / I Effects on consumers	mg/m3 2 1 0,5 DMEL Acute systemic	Chronic local 1 mg/m3	mg/m3 2 2 2 2 1 2 (C) Chronic systemic VND	Effects on workers Acute local			systemic
Threshold Limit Value Type TLV TLV TLV VLA VLEP WEL NDS TLV-ACGIH Health - Derived no-effect Route of exposure Inhalation SODIUM HYDROXIDE Threshold Limit Value Type	BGR CZE ESP FRA GBR POL level - DNEL / I Effects on consumers Acute local Country	mg/m3 2 1 0,5 DMEL Acute systemic TWA/8h mg/m3	Chronic local	mg/m3 2 2 2 2 1 2 (C) Chronic systemic VND	Effects on workers			systemic
Threshold Limit Value Type TLV TLV TLV VLA VLEP WEL NDS TLV-ACGIH Health - Derived no-effect Route of exposure Inhalation SODIUM HYDROXIDE Threshold Limit Value Type	BGR CZE ESP FRA GBR POL Ievel - DNEL / I Effects on consumers Acute local Country	mg/m3 2 1 0,5 DMEL Acute systemic TWA/8h mg/m3 2	Chronic local 1 mg/m3	mg/m3 2 2 2 2 1 2 (C) Chronic systemic VND STEL/15min mg/m3	Effects on workers Acute local			systemic
Threshold Limit Value Type TLV TLV TLV VLA VLEP WEL NDS TLV-ACGIH Health - Derived no-effect Route of exposure Inhalation SODIUM HYDROXIDE Threshold Limit Value Type TLV TLV	BGR CZE ESP FRA GBR POL Ievel - DNEL / I Effects on consumers Acute local Country BGR CZE	mg/m3 2 1 0,5 DMEL Acute systemic TWA/8h mg/m3 2 1	Chronic local 1 mg/m3	mg/m3 2 2 2 2 1 2 (C) Chronic systemic VND	Effects on workers Acute local			systemic
POTASSIUM HYDROXIDE Threshold Limit Value Type TLV TLV VLA VLEP WEL NDS TLV-ACGIH Health - Derived no-effect Route of exposure Inhalation SODIUM HYDROXIDE Threshold Limit Value Type TLV TLV VLA VLEP	BGR CZE ESP FRA GBR POL Ievel - DNEL / I Effects on consumers Acute local Country	mg/m3 2 1 0,5 DMEL Acute systemic TWA/8h mg/m3 2	Chronic local 1 mg/m3	mg/m3 2 2 2 2 1 2 (C) Chronic systemic VND STEL/15min mg/m3	Effects on workers Acute local			systemic



H164 - FORMULA 2050

Revision nr. 12

Dated 13/03/2019

Printed on 21/03/2019

Page n. 6/13

Replaced revision:3 (Dated: 03/03/2017)

NDS	POL	0,5	1
TLV	ROU	1	3

TLV-ACGIH	2 (C)

Health - Derived no-effect level - DNEL / DN	IEL
--	-----

	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation	•	•	1 mg/m3	VND	•		1 mg/m3	VND

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties



Revision nr. 12

Dated 13/03/2019

Printed on 21/03/2019

Page n. 7/13

Replaced revision:3 (Dated: 03/03/2017)

H164 - FORMULA 2050

Appearance clear liquid
Colour colourless
Odour odourless
Odour threshold Not available

pH 12,5

Concentration:TAL WHICH

Temperature:20 °C

Method:REYSMCQ2B

Melting point / freezing point Not available Initial boiling point Not available Boiling range Not available Not available Flash point Not available Evaporation rate Flammability (solid, gas) Not available Lower inflammability limit Not available Upper inflammability limit Not available Not available Lower explosive limit Upper explosive limit Not available Not available Vapour pressure Not available Vapour density

Relative density 1,015-1,025 kg/l

Method:REYSMCQ3 Concentration:TAL WHICH

Temperature:20 °C

Solubility soluble in water
Partition coefficient: n-octanol/water Not available
Auto-ignition temperature Not available
Decomposition temperature Not available
Viscosity Not available
Explosive properties Not available
Oxidising properties Not available

9.2. Other information

VOC (Directive 2010/75/EC): 0
VOC (volatile carbon): 0

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions



H164 - FORMULA 2050

Revision nr. 12

Dated 13/03/2019

Printed on 21/03/2019

Page n. 8/13

Replaced revision:3 (Dated: 03/03/2017)

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:
Not classified (no significant component)
LD50 (Oral) of the mixture:
>2000 mg/kg
LD50 (Dermal) of the mixture:
Not classified (no significant component)

POTASSIUM CARBONATE

LD50 (Oral) 1870 mg/kg Rat

Tetrasodium ethylenediaminetetraacetate



H164 - FORMULA 2050

Revision nr. 12

Dated 13/03/2019

Printed on 21/03/2019

Page n. 9/13

Replaced revision:3 (Dated: 03/03/2017)

LD50 (Oral) > 2000 mg/kg

LC50 (Inhalation) < 5000 mg/l/6h

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

Tetrasodium ethylenediaminetetraacetate

LC50 - for Fish

> 100 mg/l/96h Lepomis macrochirus



H164 - FORMULA 2050

Revision nr. 12

Dated 13/03/2019

Printed on 21/03/2019

Page n. 10/13

Replaced revision:3 (Dated: 03/03/2017)

EC50 - for Crustacea

> 100 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants

> 100 mg/l/72h Scenedesmus obliquus

Chronic NOEC for Fish

> 36,9 mg/l Brachydanio rerio

12.2. Persistence and degradability

POTASSIUM CARBONATE

Solubility in water

> 10000 mg/l

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number

Not applicable

14.2. UN proper shipping name



H164 - FORMULA 2050

Revision nr. 12

Dated 13/03/2019

Printed on 21/03/2019

	Page n. 11/13
	Replaced revision:3 (Dated: 03/03/2017)
Not applicable	
14.3. Transport hazard class(es)	
Not applicable	
14.4. Packing group	
Not applicable	
14.5. Environmental hazards	
Not applicable	
14.6. Special precautions for user	
Not applicable	
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	
Information not relevant	
SECTION 15. Regulatory information	
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
Seveso Category - Directive 2012/18/EC: None	
Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006	
Product Point 3	
Substances in Candidate List (Art. 59 REACH)	
On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.	
Substances subject to authorisation (Annex XIV REACH)	



H164 - FORMULA 2050

Revision nr. 12

Dated 13/03/2019

Printed on 21/03/2019

Page n. 12/13

Replaced revision:3 (Dated: 03/03/2017)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Met. Corr. 1 Substance or mixture corrosive to metals, category 1

Acute Tox. 4 Acute toxicity, category 4

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Eye Dam. 1 Serious eye damage, category 1

Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

H302 May be corrosive to metals.
H302 Harmful if swallowed.
H332 Harmful if inhaled

H373 May cause damage to organs through prolonged or repeated exposure.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H315 Causes skin irritation.

H335 May cause respiratory irritation.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008



H164 - FORMULA 2050

Revision nr. 12

Dated 13/03/2019

Printed on 21/03/2019

Page n. 13/13

Replaced revision:3 (Dated: 03/03/2017)

DNEL: Derived No Effect Level

EmS: Emergency Schedule

GHS: Globally Harmonized System of classification and labeling of chemicals

IATA DGR: International Air Transport Association Dangerous Goods Regulation

IC50: Immobilization Concentration 50%

IMDG: International Maritime Code for dangerous goods

IMO: International Maritime Organization

INDEX NUMBER: Identifier in Annex VI of CLP

LC50: Lethal Concentration 50%

LD50: Lethal dose 50%

OEL: Occupational Exposure Level

PBT: Persistent bioaccumulative and toxic as REACH Regulation

PEC: Predicted environmental Concentration

PEL: Predicted exposure level

PNEC: Predicted no effect concentration

REACH: EC Regulation 1907/2006

RID: Regulation concerning the international transport of dangerous goods by train

TLV: Threshold Limit Value

TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.

TWA STEL: Short-term exposure limit

TWA: Time-weighted average exposure limit

VOC: Volatile organic Compounds

vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation

WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament

2. Regulation (EC) 1272/2008 (CLP) of the European Parliament

3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament

4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament

7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament

9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament

10. Regulation (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament

11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament

12. Regulation (EU) 2016/1179 (IX Atp. CLP)

13. Regulation (EU) 2017/776 (X Atp. CLP)

- The Merck Index. - 10th Edition

- Handling Chemical Safety

INRS - Fiche Toxicologique (toxicological sheet)

Patty - Industrial Hygiene and Toxicology

N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

IFA GESTIS website

ECHA website

Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a quarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review:

The following sections were modified:

02/03/04/07/08/09/10/11/12/13/14/15/16.