

R2Y2 (6 mg Nicotine)

Print date: 05.02.2015

Product code:

Page 1 of 8

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

1.1. Product identifier

R2Y2 (6 mg Nicotine)

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

Use of the substance/mixture

To use in electronic cigarettes.

Uses advised against

not determined

1.3. Details of the supplier of the safety data sheet

Company name:	Flavourtec Sp. z o.o.	
Street:	Poleska 25	
Place:	PL-81-321 Gdynia	
Telephone:	+48 796 288 685	
Responsible Department:	Dr. Timo Gans-Eichler Chemieberatung Raesfeldstr. 22 48149 Münster	e-mail: info@tge-consult.de Tel.: +49 (0)251/924520-60 www.tge-consult.de
1.4. Emergency telephone	+48 796 288 685	

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Indications of danger: Xn - Harmful R phrases: Harmful in contact with skin.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2. Label elements

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
200-193-3	3-(N-methyl-2-pyrrolidinyl)pyridine, nicotine (ISO)	< 1 %
54-11-5	T+ - Very toxic, T - Toxic, N - Dangerous for the environment R25-27-51-53	
	Acute Tox. 1, Acute Tox. 2, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 2; H300 H310 H400 H411	

Full text of R-, H- and EUH-phrases: see section 16.

Further Information

Product does not contain listed SVHC substances.



R2Y2 (6 mg Nicotine)

Print date: 05.02.2015

Product code:

Page 2 of 8

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, seek medical treatment. Change contaminated clothing.

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of skin irritation, seek medical treatment. In all cases of doubt, or when symptoms persist, seek medical advice.

After ingestion

Rinse mouth thoroughly with water. Let water be swallowed in little sips (dilution effect). Make affected person vomit if conscious. Immediately call a POISON CENTER or doctor/physician.

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

No information available.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguishing materials should be selected according to the surrounding area. Carbon dioxide (CO2). Dry extinguishing powder. alcohol resistant foam. Atomized water.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire and/or explosion do not breathe fumes.

Can be released in case of fire: Carbon dioxide (CO2). Carbon monoxide. Nitrogen oxides (NOx).

5.3. Advice for firefighters

Protective respiration apparatus not using surrounding air (breathing apparatus) (DIN EN 133). Wear protective gloves/protective clothing. Move undamaged containers from immediate hazard area if it can be done safely. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ventilate affected area. See protective measures under point 7 and 8. Avoid contact with skin, eye and clothing.

6.2. Environmental precautions

Cover drains. Do not empty into drains or the aquatic environment. Avoid release to the environment. Inform competent authorities in case of accidental release. (Larger quantities)

6.3. Methods and material for containment and cleaning up

Suitable absorbing material: Sand. Chemical bond, acidic. sawdust. diatomaceous earth. Remove



according to Regulation (EC) No 1907/2006 R2Y2 (6 mg Nicotine)

Print date: 05.02.2015

Product code:

Page 3 of 8

mechanically, placing in appropriate containers for disposal. Ventilate affected area.

6.4. Reference to other sections

See protective measures under point 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eye and clothing. Wear personal protection equipment. Refer to chapter 8.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Further information on handling

No information available.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container. Keep the packing dry and well sealed to prevent contamination and absorbtion of dampness. Recommended storage temperature: 20°C

Advice on storage compatibility

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

Further information on storage conditions

Protect against: Light. UV-radiation/sunlight. heat. moisture.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
56-81-5	Glycerol, mist	-	10		TWA (8 h)	WEL
1		-	-		STEL (15 min)	WEL
54-11-5	Nicotine	-	0.5		TWA (8 h)	WEL
1		-	1.5		STEL (15 min)	WEL
57-55-6	Propane-1,2-diol, particulates	-	10		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

8.2. Exposure controls

Appropriate engineering controls

In case of open handling, use devices with built-in suction where possible.

Protective and hygiene measures

Always close containers tightly after the removal of product. Avoid contact with skin, eye and clothing. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use.

Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible).

Hand protection

Avoid contact with skin. For prolonged or repeated skin contact use suitable protective gloves. Suitable gloves type:



R2Y2 (6 mg Nicotine)

Print	date [.]	05.02.2	015
1 11110	uale.	00.02.2	015

Product code:

Page 4 of 8

penetration time (maximum wearing period): 8 h

Butyl rubber. (0,5 mm) FKM (fluororubber). (0,4 mm)

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

In case of reutilization, clean gloves before taking off and store in well-aired place.

Skin protection

Wear suitable protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. Respiratory protection required in case of: Generation/formation of aerosols exceeding critical value Suitable respiratory protective equipment: Combination filter device (DIN EN 141).. Type A/P2-3 The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used! Only use breathing apparatus with CE-label including the four-digit identification number.

Environmental exposure controls

Do not allow uncontrolled leakage of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid		
Colour:	not determined		
Odour:	characteristic		
		Test method	
pH-Value:		not determined	
Changes in the physical state			
Melting point:		not determined	
Initial boiling point and boiling range:		not determined	
Sublimation point:		not determined	
Softening point:		not determined	
Flash point:		not determined	
Explosive properties Product itself is not explosi	ve.		
Lower explosion limits:		not determined	
Upper explosion limits:		not determined	
Ignition temperature:		not determined	
Oxidizing properties none/none			
Vapour pressure:		not determined	
Vapour pressure:		not determined	
Density:		not determined	
Bulk density:		not determined	
Water solubility:		not determined	
Partition coefficient:		not determined	



	R2Y2 (6 mg Nicotine)	
Print date: 05.02.2015	Product code:	Page 5 of 8
Viscosity / dynamic:	not determined	
Viscosity / kinematic:	not determined	
Flow time:	not determined	
Vapour density:	not determined	
Evaporation rate:	not determined	
Solvent content:	No data available	

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable under normal storage and handling conditions.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

10.5. Incompatible materials

Materials to avoid: Reducing agents. Oxidizing agents.

10.6. Hazardous decomposition products

Can be released in case of fire: Carbon dioxide (CO2). Carbon monoxide. Nitrogen oxides (NOx).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution

No information available.

Acute toxicity

Based on available data, the classification criteria are not met.

Acute toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
54-11-5	3-(N-methyl-2-pyrrolidinyl)pyridine, nicotine (ISO)				
	oral	LD50	50 mg/kg	Rat.	GESTIS
	dermal	LD50	50 mg/kg	Rabbit.	GESTIS

Irritation and corrosivity

Based on available data, the classification criteria are not met. Irritant effect on the skin: Not an irritant. Irritant effect on the eye: Not an irritant.

Sensitising effects

Based on available data, the classification criteria are not met.

Product is: no danger of sensitization. The statement is derived form the properties of the components.

STOT-single exposure

Based on available data, the classification criteria are not met.

Severe effects after repeated or prolonged exposure

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.



R2Y2 (6 mg Nicotine)

Print date: 05.02.2015

Product code:

Page 6 of 8

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No data available

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity Method Dose [h] [d] Species Source					
54-11-5	3-(N-methyl-2-pyrrolidinyl)pyridine, nicotine (ISO)					
	Acute fish toxicity	LC50	4 mg/l	96 h		GESTIS
	Acute crustacea toxicity	EC50	0,24 mg/l	48 h		GESTIS

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
54-11-5	3-(N-methyl-2-pyrrolidinyl)pyridine, nicotine (ISO)	1,17

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This substance does not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Waste disposal according to official state regulations. Cleaned containers may be recycled.

Waste disposal number of waste from residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing dangerous substances Classified as hazardous waste.

Waste disposal number of used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing dangerous substances Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances Classified as hazardous waste.

Contaminated packaging

Handle contaminated packaging in the same way as the substance itself.

SECTION 14: Transport information



	according to Regulation (EC) No 1907/2006				
R2Y2 (6 mg Nicotine)					
Print date: 05.02.2015	Product code:	Page 7 of 8			
Land transport (ADR/RID)					
Other applicable information (land tran	sport)				
Not a hazardous material wi	ith respect to these transportation regulations.				
Inland waterways transport (ADN)					
Other applicable information (inland wa Not a hazardous material wi	aterways transport) ith respect to these transportation regulations.				
Marine transport (IMDG)					
Other applicable information (marine tr Not a hazardous material wi	ransport) ith respect to these transportation regulations.				
Air transport (ICAO)					
Other applicable information (air transp Not a hazardous material wi	port) ith respect to these transportation regulations.				
14.5. Environmental hazards					
ENVIRONMENTALLY HAZARDOUS:	no				
14.6. Special precautions for user refer to chapter 6-8					
14.7. Transport in bulk according to Annex irrelevant	<u>k II of MARPOL73/78 and the IBC Code</u>				
SECTION 15: Regulatory information					
15.1. Safety, health and environmental reg	ulations/legislation specific for the substance or mixture				
EU regulatory information					
1999/13/EC (VOC):	No data available				
Additional information					
	us in the sense of Directive 1999/45/EC.				
This mixture is classified as	not hazardous according to Regulation (EC) 1272/2008 [GHS].				
National regulatory information					
Employment restrictions:	Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.				
Water contaminating class (D):	2 - water contaminating				
15.2. Chemical safety assessment					
Chemical safety assessmen	ts for substances in this mixture were not carried out.				
SECTION 16: Other information					
Changes					
Rev 1,00 Initial release 03.0	2.2015				
Abbreviations and acronyms					
-	le transport des marchandises dangereuses par Route (European				

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization



R2Y2 (6 mg Nicotine)

Print date: 05.02.2015	Product code:	Page 8 of 8
	TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)	
	Globally Harmonized System of Classification and Labelling of Chemicals	
	CS: European Inventory of Existing Commercial Chemical Substances	
	Chemical Abstracts Service (division of the American Chemical Society)	
	Lethal concentration, 50 percent	
	Lethal dose, 50 percent L: No observed effect level	
	s (Number and full text)	
	Toxic if swallowed.	
	Very toxic in contact with skin.	
	Toxic to aquatic organisms.	
53	May cause long-term adverse effects in the aquatic environment.	
Relevant H- and El	JH-phrases (Number and full text)	
H300	Fatal if swallowed.	
H310	Fatal in contact with skin.	
H400	Very toxic to aquatic life.	
H411	Toxic to aquatic life with long lasting effects.	
Further Information	n	
The ab	pove information describes exclusively the safety requirements of the product and is based on	
our pre	esent-day knowledge. The information is intended to give you advice about the safe handling of	
the pro	oduct named in this safety data sheet, for storage, processing, transport and disposal. The	
	ation cannot be transferred to other products. In the case of mixing the product with other	
	ts or in the case of processing, the information on this safety data sheet is not necessarily valid	
	new made-up material.	

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)