1. IDENTIFICATION OF THE MIXTURE AND OF THE SUPPLIER	
Product Identifier	
Product	RGB NANO CANDY RED [600-NRD96]
Recommended use of chemical	Use as Tinter of paint
Restriction on use	No open flames, No spraks, and No smoking
Supplier's details	
Company	Big-Ben (Paints) Company Limited
Address	38 Mu 7 Suanluangruamjai Road Suanluang Krathumban Samutsakorn 74110 Thailand
Telephone number	+66 2 811 1442 or +66 2 811 1443
Fax number	+66 2 811 0632
E-mail	bbp@bbp.co.th
Emergency phone number	+66 2 811 1442 or + 66 2 811 1443

2. HAZARD IDENTIFICATION

Classification of the substance or mixture

This product has been classified in accordance with the hazard communication standard 29 CSR 1910.1200; the SDS and labels contain all the information as required by the standard.

Flammable liquids	Category 1
Acute toxicity - dermal	Category 4
Skin corrosion/irritation	Category 2
Eye damage/irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3
Hazardous to the aquatic environment - acute hazard	Category 2
Hazardous to the aquatic environment - long-term hazard	Category 3

Remark:

Percentage of mixture consisting of ingredient(s) of unknown oral toxicity: 79.64%

Danger

Percentage of mixture consisting of ingredient(s) of unknown dermal toxicity: 85.13%

Percentage of mixture consisting of ingredient(s) of unknown inhalation toxicity: 56.84%

GHS label elements

Pictogram or symbol	

Hazard statement:

Signal word

H224 Extremely flammable liquid and vapour

H312 Harmful in contact with skin

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H336 May cause drowsiness or dizziness

H401 Toxic to aquatic life

H412 Harmful to aquatic life with long lasting effects

Precautionary statement

[PREVENTION]

P210 Keep away from heat / sparks / open flames / hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground / bond container and receiving equipment.

P241 Use explosion-proof electrical / ventilating / lighting / equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves / protective clothing / eye protection / face protection.

[RESPONSE]

P302+P352 IF ON SKIN Wash with plenty of soap and water.

P303+P361+P353 IF ON SKIN (or hair) Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P304+P340 IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

P312 Call a POISON CENTER or doctor / physician if you feel unwell.

P321 Specific treatment (see on this label).

P322 Specific measures (see on this label).

P332+P313 IF skin irritation occursGet medical advice / attention.

P337+P313 IF eye irritation persistsGet medical advice / attention.

P362 Take off contaminated clothing and wash before reuse.

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire Use dry sand, dry chemical or alcohol-resistant foam for extinction.

[STORAGE]

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

[DISPOSAL]

P501 Dispose of contents / container in accordance with local / regional / national / international regulations.

3. COMPOSITION AND INFORMATION ON INGREDIENTS		
Chemical name	CAS No.	Content % (w/w)
1-METHOXY-2-PROPANOL ACETATE	108-65-6	6.01 - 18.75
2,9-dimethyl-5,7,12,14-tetrahydro-5,12-diazapentacene-7,14-dione	980-26-7	0.84 - 2.07
4-Methyl-2-pentanone	108-10-1	18.19 - 40.59
Acrylic Resin	-	24.27 - 45.45
Ferric Oxide	1309-37-1	2.66 - 4.87
Xylene	1330-20-7	10.54 - 19.46
cellulose acetate butyrate	9004-36-8	0.74 - 2.12

4. FIRST AID MEASURES	
Inhalation	Remove to fresh air. If unconscious, place in recovery position and seek medical attention immediately.
Skin contact	Immediately flush with water for at least 15 minutes. Remove containinated clothing. Seek medical attention immediately. Wash thoroughly after handling.
Eye contact	Hold eyelids apart and immediately flush with plenty of water for 15 minutes. Seek medical advice. Remove contact lenses.
Ingestion	Rinse mouth with water. Never give anything by mouth to an unconscious person. Obtain medical attention. If swallowed, DO NOT induce vomitting unless directed to do so by medical personnel.
Most important symptoms/effects, acute and delayed	Dizziness. Drowsiness. Headache. Nausea. Vomitting. Weakness. Unconsciousness. Skin and eye redness. Pain. Nausea. Vomitting.

5. FIRE FIGHTING MEASURES	
Suitable extinguishing media	Dry chemical. Carbon Dioxide (CO ₂). Alcohol-resistant foam. Water spray.
Unsuitable extinguishing media	High volume water jet.
Specific hazards arising from the chemical	Flammable liquid. Vapors can form an ignitable misture with air. Vapors can flow along surfaces to a distant ignition source and flash back. Container may rupture on heating.
Specific protective equipment and precautions for firefighters	Wear self-contained breathing apparatus and full protective clothing for firefighting.

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6. ACCIDENTAL RELEASE MEAS	SURES
Personal precautions, protective equipment, and emergency	Keep unnecessary personnel away. Prevent further leakage or spillage if safe to do so. Use personal protective equipment. Use only non-sparkling tools.
procedures Environmental precautions	Prevent the material from entering drains or water courses.
Methods and materials for	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth,
containment and cleaning up	diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations.
7. HANDLING AND STORAGE	
Precautions for safe handling	Avoid breathing vapor and contact with eyes, skin, and clothing. Do no leave containers open. Avoid
· ·	repeated or prolonged contact with skin.
Conditions for safe storage,	Keep away from heat or flames. Keep in cool, dry, ventilated storage and in closed
including any incompatibilites	containers. Store away from oxidizing agent.
8. EXPOSURE CONTROLS/PERS	SONAL PROTECTION
Control parameters	1-METHOXY-2-PROPANOL ACETATE OSHA
	PEL-TWA 50 ¹¹
	Skin notification Y ¹⁴
	NIOSH
	REL-TWA 5 ¹¹
	Skin notification Y ¹¹ ACGIH
	TLV-TWA 20 ¹¹
	Skin notification N ¹¹ CAL/OSHA
	PEL-TWA 20 ¹¹
	2.9-dimethyl-5.7.12.14-tetrahydro-5.12-diazapentacene-7.14-dione 4-Methyl-2-pentanone OSHA
	PEL-TWA 100 ¹²
	Skin notification N ¹² NIOSH
	REL-TWA 50 ¹²
	REL-STEL 75 ¹²
	Skin notification N ¹²
	ACGIH
	TLV-TWA 20 ¹²
	TLV-STEL 75 ¹²
	Skin notification N ¹² CAL/OSHA
	PEL-TWA 50 ¹²
	PEL-STEL 75 ¹²
	Skin notification N ¹²
	Acrylic Resin Ferric Oxide OSHA
	PEL-TWA 10
	Skin notification N NIOSH
	REL-TWA 5
	Skin notification N ACGIH
	TLV-TWA 5
	Skin notification N CAL/OSHA
	PEL-TWA 5 Xylene OSHA
	PEL-TWA 100 ¹³ Skin notification N ¹³

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	NIOSH REL-TWA 100 ¹³ Skin notification N ¹³ ACGIH TLV-TWA 100 ¹³ TLV-STEL 150 ¹³ Skin notification N ¹³ CAL/OSHA PEL-TWA 100 ¹³ PEL-STEL 150 ¹³ PEL-STEL 150 ¹³ Skin notification N ¹³ cellulose acetate butyrate
Appropriate engineering controls	Provide adequate ventilation. Install local exhaust.
Personal protective equipment	
Respiratory protection	Organic vapor respirator
Hand protection	Rubber gloves. Neoprene.
Eye protection	Safety goggle.
Skin and body protection	Wear suitable clothing
9. PHYSICAL AND CHEMICAL PRO	OPERTIES
Appearance	High Viscosity liquid
Odor	organic solvent
Odor threshold	Not available
pH	Not available
Melting point/freezing point	Not available
Initial boiling point and boiling range	Not available
Flash point	< 23
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper/lower flammability or explosive limits	Not available Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	0.88 - 0.98
Solubility(ies)	Soluble in Organic solvent
Partition coefficient n-Octanol-water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	68 - 78 KU at 30°C
10. STABILITY AND REACTIVITY	
Reactivity	Reacts violently with strong acids and strong oxidants
Chemical stability	Stable under normal storage and handling conditions
Possibility of hazardous reaction	Will not occur
Condition to avoid	High temperatures, sparks, open flame, and all other sources of ignition
Incompatible materials	Strong oxidizing agents, strong acids
Hazardous decomposition products	Not available

11. TOXICOLOGICAL INFORMAT	ION
Acute toxicity (oral)	ATEmix = 5097.03 mg/kg (Not classified)
	1-METHOXY-2-PROPANOL ACETATE LD50 (rat) oral = 5155.00 mg/kg ¹
	2,9-dimethyl-5,7,12,14-tetrahydro-5,12-diazapentacene-7,14-dione LD50 (rat) oral = 2000.00 mg/kg^2
	Ferric Oxide LD50 (rat) oral = 10000.00 mg/kg
Acute toxicity (dermal)	ATEmix = 2000.00 mg/kg (Classify 4)
	1-METHOXY-2-PROPANOL ACETATE LD50 (rabbit) dermal = 2000.00 mg/kg ¹
Acute toxicity (dermal)	ATEmix = 15.39 mg/kg (Not classified)
	2,9-dimethyl-5,7,12,14-tetrahydro-5,12-diazapentacene-7,14-dione LC50 (rat) inhalation = 3.06 mg/kg ²
	4-Methyl-2-pentanone LC50 (rat) inhalation = 11.60 mg/kg ³
	Xylene LC50 (rat) inhalation = 6360.00 mg/kg ⁴
Skin corrosion and skin irritation	Causes skin irritation (Xylene)
Serious eye damage or eye irritation	Causes serious eye irritation (4-Methyl-2-pentanone)
Respirator and skin sensitzation	Not classified
Skin sentization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity	May cause respiratory irritation (4-Methyl-2-pentanone)
following single exposure	
Specific target organ toxicity	Not classified
following repeated exposure	
Aspiration hazard	Not classified

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12. ECOLOGICAL INFORMATIO	N .
Acute aquatic hazard	Toxic to aquatic life
	1-METHOXY-2-PROPANOL ACETATE LC50 (fish) 96 hr = 100 mg/L ¹
	EC48 (shrimp) 48 hr = 50 mg/L ¹
	2,9-dimethyl-5,7,12,14-tetrahydro-5,12-diazapentacene-7,14-dione LC50 (fish) 96 hr = 100 mg/L^2
	EC48 (shrimp) 48 hr = 100 mg/L ²
	ErC-EC72 (Fungi) 96 hr = 10 mg/L^2
	$\frac{4-\text{Methyl-}2-\text{pentanone}}{\text{LC50 (fish) 96 hr}} = 179 \text{ mg/L}^6$
	EC48 (shrimp) 48 hr = 200 mg/L ⁶
	<u>Ferric Oxide</u> LC50 (fish) 96 hr = 50000 mg/L
	EC48 (shrimp) 48 hr = 100 mg/L
	<u>Xylene</u> LC50 (fish) 96 hr = 3.30 mg/L^7
Long term aquatic hazard	Harmful to aquatic life with long lasting effects
	1-METHOXY-2-PROPANOL ACETATE NOEC fish = 47.5 mg/L ⁸
	NOEC shrimp = 100 mg/L ⁸
	NOEC fungi = 10 mg/L^2
	4-Methyl-2-pentanone NOEC shrimp = 30 mg/L ⁶
	Xylene NOEC fish = 1.30 mg/L ⁹
	NOEC shrimp = 1.57 mg/L ⁵
	NOEC fungi = 0.44 mg/L ⁵
Persistance and degradability	Rapidly degradable (1-METHOXY-2-PROPANOL ACETATE,4-Methyl-2-pentanone ,Xylene)
Bioaccumulative potential	Bioaccumulative potential 1-METHOXY-2-PROPANOL ACETATE
	log KOW = 0.56 ¹⁶
	BCF = 3 ¹⁶
	4-Methyl-2-pentanone log KOW = 1.31 ¹⁷
	BCF = 3 ¹⁷
	<u>Xylene</u> log KOW = 3.20 ¹⁸
	BCF = 14.80 ¹⁸
Mobility in soil	The product is insoluable in water. If released to water, some of the components will have tendency
	evaporate while other components are expected to be highly mobile in soil and have the potential to
	reach underground water supplies.
Other adverse effects	Not available
13. DISPOSAL CONSIDERATIO	NS
Disposal methods	Disposing of this material/container should be done under all the regulations or handled by authorize waste collector in your country
Container disposal	Do not re-use empty containers
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13. DISPOSAL CONSIDERA	TIONS
Disposal methods	Disposing of this material/container should be done under all the regulations or handled by authorized waste collector in your country
Container disposal	Do not re-use empty containers

14. TRANSPORT INFORMATIO	N
Labels required	3
UN number	1263
UN proper shipping name	Paint
Transport hazard class(es)	3
Packing group	III
Environmental hazards	Not applicable
Special precautions	Not applicable
Transport in bulk	Not applicable

15. REGULATORY INFORMATION

Inventory of existing chemical	All component in this product are listed
substance produced or imported in	
USA (TSCA)	
Toxic substance control act (TSCA)	All component in this product are listed

16. OTHER INFORMATION

Issue date: 10 November 2022

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