Material Safety Data Sheet

Printed Date: 2014-10-29 File Name: ART-AcrylicPaintPotsPearl-MSDS.pdf

1 Identification of substance/preparation and of the company/undertaking

Product details

Trade name: Acrylic Paint Pots Pearl– 12 colors Product Number(s): ART-3021 Application of the substance/the preparation: Paint by artist, amateur and students

Manufacturer/Supplier:

Art Advantage PO Box 1417 Beaverton, OR 97075 Tel: 503-643-9050 Fax: 503-626-9503 •Information in case of emergency: Tel: 503-643-9050 •Refernce Number: ART-AcrylicPaintPotsPearl-MSDS

<u>2 Hazards identification</u>

Hazard description: Not applicable
Information concerning particular hazards for human and environments: The products does not have to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version
Classification system
The classification is according to the latest editions of the EU-lists, and extended by company and literature date.

<u>3 Composition/information on ingredients</u>

·Chemical characterization

•Description:

Mixture of substances listed as attached file with non-hazardous additions.

4 First Aid measures

•After inhalation: Supply fresh air; consult doctor in case of complaints •After skin contact: Generally the product does not irritate the skin •After eye contact: Rinse opened eye for several minutes under running water •After swallowing: If symptoms persist consult doctor.

<u>5 Fire-fighting measures</u>

Suitable extinguishing agents

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam *Protective equipment*: Month respiratory protective device

<u>6 Accidental release measure</u>

•*Person-related safety precautions*: Ware protective equipment. Keep unprotected persons away. •*Measures for environmental protection*: Do not allow to enter sewers/surface or ground water. •*Measure of cleaning/collecting:* Pick up mechanically.

•Additional information: No dangerous substances are released

7 Handling and storage

·Handling:

•Information for safe handling: Store in cool, dry place in tightly closed receptacles.
•Information about fire – and explosion protection: Keep ignition source away – Do not smoke.
•Storage:
•Requirements to be met by storerooms and receptacles: Store in a cool location.

•Information about storage in one common storage facility: Store away from flammable substances.

•Further information about storage conditions: Store in a cool place.

8 Exposure controls	s/personal protection
	about design of technical facilities: No further date; see item 7
	it value that require monitoring at the workplace:
13463-67-7 Titanium	
Great Britain(WEL)	Long time value = $10*4*mg/m^3$
	Remarks * Total inhalable ** Respirable
USA(TLV)	Ling time value = 10 mg/m^3
7727-43-7 barium sul	
Great Britain(WEL)	Long time value = $10*4**mg/m^3$
	Remarks*Total inhalable**Respirable Dust
USA(PEL)	Long time value = $15*5**mg/m^3$
	Remarks*Total dust**Respirable fraction
USA(REL)	Long time value= $10*5**mg/m^3$
	Remark*Total dust**Respirable fraction
133-86-4 Carbon Bla	
Great Britain(WEL)	Long time value = $3.5 mg/m^3$
USA(PEL)	Long time value = 3.5 mg/m^3
USA(REL)	Long time value= $3.5 \text{mg}/\text{m}^3$
	Remark*0.1 in presence of PAHs as PAHs
USA(TLV)	Long time value = 3.5mg/m^3
	<i>n:</i> The listed valid during the making were used as basis
•Personal protective eq	0 0
•General protective and	
	y measures are to be adhered to when handling chemicals
•Respiratory protection	
•Protection of hands:	1
	as to be impermeable and resistant to the products/the substance/the
preparation. Due to m	issing test no recommendation to the glove material can be given for the
	n/the chemical mixture. Selection of the glove material on consideration of
	ate of diffusion and the degradation
•Material of gloves	
the selection of the st	uitable gloves does not only depend on the material, but also on further
marks of quality and	varies from manufacturer. As the product is a preparation of several
substance. The resistan	nce of the glove material can not be calculated in advance and has therefore
to be checked prior to t	the application.
•Penetration time of gl	ove material
Te exact break though	time has to be found out by the manufacturer of the protective gloves and
has to be observed.	
•Eye protection: Not re	quired·

9 Physical and chemical properties

Color Names:

Titanium White, Titanium White, Lemon Yellow, Yellow Ochre, Cadmium Yellow, Cadmium Yellow, Orange Yellow, Pink, Cadmium Red, Cadmium Red, Crimson, Leaf Green, Viridian, Sap Green, Phthalocyanine Green, Cerulean Blue, Cerulean Blue, Phthalocyanine Blue, Ultramarine Blue, Purple, Burnt sienna, Raw Umber, Black, Black

•General Information	
Form:	Paste
Colour:	As per attached file
Odour:	No
•Change in condition:	
Melting point/Melting range:	Not available
Boiling point/Boiling range:	99 ° C
·Flash point:	>525 ° C
·Flammability(solid , gaseous):	Not available
·Ignition temperature:	Not available
·Self-igniting:	Product is not self igniting.
•Danger of explosion:	Product dose not present an explosion hazard
•Explosion limits :	
Lover:	Not available
Upper:	Not available
•Oxidizing properties	Not available
•Vapour pressure:	Not available
•Density:	$1,03-1.05g/cm^{3}$
·Relative density	Not available
•Vapour density	Not available
•Evaporation rate	Not available
Solubility in /Miscibility with	Not available
·pH-value:	8.0-9.0
·Viscosity:	
Dynamic:	Not available

10 Stability and reactivity

•Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications.

·Dangerous reactions No dangerous reactions known.

·Dangerous decomposition products: No dangerous decomposition products known.

<u>11 IOXICOIC</u> •Acute toxi	o gical informa icitv	<u>uon</u>
	values relevant for	classification:
13463-67-	7 titanium dioxide	¥
Oral	LD50	>20000 mg/kg(rat)
Dermal	LD50	>10000 mg/kg(rabbit)
Inhalative	LC50/4h	>6,82 mg/l9rat)
1328-53-6 Pa	olychloro copper ph	thalocyanine
Oral	LD50	>5000mg/kg(rat)
1333-86-4 Ca	arbon black	
Oral	LD50	10000 mg/kg(rat)
•Primary irri	tant effect:	
on the skin :	Irritating effect pos	sible
on the eye :	Irritating effect poss	ible
 Sensitization 	i : Sensitization poss	sible through skin contact.
•Additional	toxicological inform	mation :
The product	t is not subject to cl	assification according to the calculation method of the General
EU Classificat	tion Guidelines for H	Preparations as issued in the latest version.
When used	and handled accord	ding to specifications, the product does not have any harmful
m , ,	• • • • • • • • • • • • • • • • • • • •	

effects to our experience and the information provide to us.

<u>12 Ecological information</u>

•General notes:

Water hazard class 1 (German Regulation)(self-assessment):slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

•Product :

•Recommendation Smaller quantities can be disposed of with household waste. •Uncleaned packaging:

•Recommendation: Disposal must be made according to official regulations.

<u>14. Transport information:</u>

<u>14. Transport information:</u>
·Land transport ADR/RID (cross-border)
·ADR/RID class : -
·Danger code (Kemler) : -
·UN-Number : -
·Hazard label : -
Description of goods : -
•Maritime transport IMDG :
·IMDG/RID class : -
·UN-Number : -
·Label : -
•Packaging group : -
•EMS Number : -
•Marine pollutant : NO
•Proper shipping name : -
•Air transport ICAO – TI and IATA – DGR
·ICAO/IATA Class: -
·UN/ID Number: -
·Label: -
•Packaging group: -
Proper shipping name: -

Section 355 ((Extremely hazardous substances):	
None of the in	ngredients is listed.	
•Section 313 ((Specific toxic chemical listings):	
	ngredients is listed.	
•TSCA (Toxic	Substances Control Act):	
13463-67-7	Titanium dioxide	
7727-43-7	Barium sulphate, natural	
1328-53-6	Polychloro copper phthalocyanine	
Proposition 65	5	
•Chemicals kr	nown to cause cancer :	
1333-86-4	Carbon Black	
	nown to cause reproductive toxicity for females:	
None of the i	ingredients is listed.	
•Chemicals kr	nown to cause reproductive toxicity for males:	
None of the in	ngredients is listed.	
•Chemicals ki	nown to cause developmental toxicity:	
	ngredients is listed.	
Cancerogenity	<u> </u>	
·EPA (Enviro	nmental Protection Agency)	
None of the in	ngredients is listed.	
·IARC(Intern	national Agency for Research on Cancer)	
13463-67-7		3
1333-86-4	Carbon Black	21
	al Toxicology Program)	
None of the in	ngredients is listed.	
•TLV(Thresh	old Limit Value established by ACGIH)	
13463-67-7	Titanium dioxide	A4
1333-86-4	Carbon Black	A4
.NIOSH-Ca (National Institute for Occupational Safety and Health	
13463-67-7	Titanium dioxide	
1333-86-4	Carbon Black	
	ccupational Safety & Health Administration)	
.OSHA-Ca(O	1 1 1	
.0SHA-Ca(O None of the in	ngredients is listed.	
None of the in	rding to EU guidelines:	
None of the in Labeling acco	<u>.</u>	s substance: Directiv
<i>None of the in</i> <i>Labeling acco</i> The preparation	rding to EU guidelines:	

<u>16 Other information</u>

The contents and format of this MSDS are in accordance with EEC commission Directive 2001/58/EC, 1999/45/EC,1967/548/EEC

DISCLAIMER OF LIABILITY

The information in this MSDS was obtained form sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or express arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

END of document

Composition (%) Composition (%) Value 2-amino-2-met hydroxyethyl i Texnol /Isobutyric acid, monoester with 1.2-Propa mix of 5-Chloro-2-methyl-4-isothiazoli Methyl-4-isothiazolin-3-one(2-Propenoic acid, 2-methyl-, pol Acrylic acid Silver Carmine(2%) Pearl pink TiO2(44%) Carmine(2%) Pearl Carmine TiO2(44%) Carmine(2%) Pearl Pink TiO2(44%) Carmine(2%) Pearl Carmine TiO2(2%) Pearl Sright red TiO2(2%) Pearl Yellow TiO2(33%) Pearl Yellow TiO2(33%) Pearl Yellow(3%) Nica(65%) Pearl Orange TiO2(3%) S#Yellow(3%)	thylpropanol Cellulose h 2,2,4-trimethylpentane-1,3-diol anediol in-3-one(CAS#:26172-55-4) + 2- CAS#2682-20-4) (3:1) lymer with ethyl 2-propenoate	CAS-No. 7732-18-5 124-68-5 9004-62-0 25265-77-4 57-55-6 55965-84-9 25212-88-8 9003-01-4 12001-26-2 13463-67-7 12001-26-2 13463-67-7	White 44.94% 0.86% 1.21% 0.40% 3.12% 0.08% 3.33% 26.96% 19.10%	Pink 44.94% 0.86% 1.21% 0.40% 3.12% 0.08% 3.33% 26.96%	Carmine 44.94% 0.86% 1.21% 0.40% 3.12% 0.08% 3.33% 26.96%	Bright red 44.94% 0.86% 1.21% 0.40% 3.12% 0.08% 3.33% 26.96%	Bright Yellow 44.94% 0.86% 1.21% 0.40% 3.12% 0.08% 3.33% 26.96%	Orange Yellow 44.94% 0.86% 1.21% 0.40% 3.12% 0.08% 3.33% 26.96%	Shining Blue 44.94% 0.86% 1.21% 0.40% 3.12% 0.08%	Violet 44.94% 0.86% 1.21% 0.40% 3.12% 0.08% 3.33%	Blue Deep 44.94% 0.86% 1.21% 0.40% 3.12% 0.08% 3.33%	Apple Green 44.94% 0.86% 1.21% 0.40% 3.12% 0.08% 3.33%	Magic Green 44.94% 0.86% 1.21% 0.40% 3.12% 0.08% 3.33%	Shining Green 44.94% 0.86% 1.21% 0.40% 3.12% 0.08%
Wate 2-amino-2-met hydroxyethyl Texnol /lsobutyric acid, monoester witt 1.2-Propa mix of 5-Chloro-2-methyl-4-isothiazoli 2-Propenoic acid, 2-methyl-, pol 3-1000000000000000000000000000000000000	thylpropanol Cellulose h 2,2,4-trimethylpentane-1,3-diol anediol in-3-one(CAS#:26172-55-4) + 2- CAS#2682-20-4) (3:1) lymer with ethyl 2-propenoate polymer Mica	124-68-5 9004-62-0 25265-77-4 57-55-6 55965-84-9 25212-88-8 9003-01-4 12001-26-2 13463-67-7 12001-26-2	0.86% 1.21% 0.40% 3.12% 0.08% 3.33% 26.96%	0.86% 1.21% 0.40% 3.12% 0.08% 3.33%	0.86% 1.21% 0.40% 3.12% 0.08% 3.33%	0.86% 1.21% 0.40% 3.12% 0.08% 3.33%	44.94% 0.86% 1.21% 0.40% 3.12% 0.08% 3.33%	44.94% 0.86% 1.21% 0.40% 3.12% 0.08% 3.33%	0.86% 1.21% 0.40% 3.12% 0.08% 3.33%	0.86% 1.21% 0.40% 3.12% 0.08%	44.94% 0.86% 1.21% 0.40% 3.12% 0.08%	44.94% 0.86% 1.21% 0.40% 3.12% 0.08%	0.86% 1.21% 0.40% 3.12% 0.08%	44.94% 0.86% 1.21% 0.40% 3.12% 0.08%
2-amino-2-meth hydroxyethyl i Texnol /lsobutyric acid, monoester with 1.2-Propa mix of 5-Chloro-2-methyl-4-isothiazoli 2-Propenoic acid, 2-methyl-4, pol 2-Propenoic acid, 2-methyl-4, pol 2-Propenoic acid, 2-methyl-4, pol Silver Acrylic acid 1i22(44%) Carmine(2%) Pearl pink Mica(70%) Pearl Carmine Mica(70%) Pearl Bright red TiO2(28%) Carmine(2%) Mica(65%) Pearl Yellow Mica(65%) Pearl Yellow Mica(65%) Pearl Orange FiO2(3%) Sity Pearl Orange	thylpropanol Cellulose h 2,2,4-trimethylpentane-1,3-diol anediol in-3-one(CAS#:26172-55-4) + 2- CAS#2682-20-4) (3:1) lymer with ethyl 2-propenoate polymer Mica	124-68-5 9004-62-0 25265-77-4 57-55-6 55965-84-9 25212-88-8 9003-01-4 12001-26-2 13463-67-7 12001-26-2	0.86% 1.21% 0.40% 3.12% 0.08% 3.33% 26.96%	0.86% 1.21% 0.40% 3.12% 0.08% 3.33%	0.86% 1.21% 0.40% 3.12% 0.08% 3.33%	0.86% 1.21% 0.40% 3.12% 0.08% 3.33%	0.86% 1.21% 0.40% 3.12% 0.08% 3.33%	0.86% 1.21% 0.40% 3.12% 0.08% 3.33%	0.86% 1.21% 0.40% 3.12% 0.08% 3.33%	0.86% 1.21% 0.40% 3.12% 0.08%	0.86% 1.21% 0.40% 3.12% 0.08%	0.86% 1.21% 0.40% 3.12% 0.08%	0.86% 1.21% 0.40% 3.12% 0.08%	0.86% 1.21% 0.40% 3.12% 0.08%
hydroxyethyl i Texnol /Isobutyric acid, monoester with 1,2-Propa mix of 5-Chloro-2-methyl-4-isothiazoli Methyl-4-isothiazolin-3-one(i 2-Propenoic acid, 2-methyl-, pol 2-Propenoic acid, 2-methyl-, pol Acrylic acid Silver Mica(54%) Pearl pink TiO2(44%) Carmine(2%) Mica(70%) Pearl Carmine Mica(70%) Pearl Carmine Mica(70%) Pearl Bright red TiO2(28%) Carmine(2%) Mica(65%) Pearl Yellow Mica(65%) Pearl Orange TiO2(32%) 5#Yellow(3%)	Cellulose h 2.2.4-trimethylpentane-1.3-diol anediol in-3-one(CAS#26172-55-4) + 2- CAS#2682-20-4) (3:1) lymer with ethyl 2-propenoate polymer Mica	9004-62-0 25265-77-4 57-55-6 55965-84-9 25212-88-8 9003-01-4 12001-26-2 13463-67-7 12001-26-2	1.21% 0.40% 3.12% 0.08% 3.33% 26.96%	1.21% 0.40% 3.12% 0.08% 3.33%	1.21% 0.40% 3.12% 0.08% 3.33%	1.21% 0.40% 3.12% 0.08% 3.33%	1.21% 0.40% 3.12% 0.08% 3.33%	1.21% 0.40% 3.12% 0.08% 3.33%	1.21% 0.40% 3.12% 0.08% 3.33%	1.21% 0.40% 3.12% 0.08%	1.21% 0.40% 3.12% 0.08%	1.21% 0.40% 3.12% 0.08%	1.21% 0.40% 3.12% 0.08%	1.21% 0.40% 3.12% 0.08%
Texnol //sobutyric acid, monoester with 1,2-Propa mix of 5-Chloro-2-methyl-4-isothiazolin-3-one(r 2-Propenoic acid, 2-methyl-, pol 2-Propenoic acid, 2-methyl-, pol Silver Acrylic acid Pearl pink Mica(54%) Carmine(2%) Mica(70%) Pearl Carmine Acrylic 2(28%) Carmine(2%) Mica(70%) Pearl Bright red TiO2(28%) Pearl Yellow Mica(55%) Pearl Vellow Yellow(2%) Mica(65%) Pearl Orange TiO2(32%) Sitter	h 2.2.4-trimethylpentane-1,3-diol anediol in-3-one(CAS#:26172-55-4) + 2- CAS#2682-20-4) (3:1) lymer with ethyl 2-propenoate polymer Mica	25265-77-4 57-55-6 55965-84-9 25212-88-8 9003-01-4 12001-26-2 13463-67-7 12001-26-2	0.40% 3.12% 0.08% 3.33% 26.96%	0.40% 3.12% 0.08% 3.33%	0.40% 3.12% 0.08% 3.33%	0.40% 3.12% 0.08% 3.33%	0.40% 3.12% 0.08% 3.33%	0.40% 3.12% 0.08% 3.33%	0.40% 3.12% 0.08% 3.33%	0.40% 3.12% 0.08%	0.40% 3.12% 0.08%	0.40% 3.12% 0.08%	0.40% 3.12% 0.08%	0.40% 3.12% 0.08%
1.2-Propa mix of 5-Chloro-2-methyl-4-isothiazoli Methyl-4-isothiazolin-3-one(i 2-Propenoic acid, 2-methyl-, pol 2-Propenoic acid, 2-methyl-, pol Silver Acrylic acid Silver Mica(54%) Pearl pink Mica(54%) Pearl pink Mica(70%) Pearl Carmine Mica(70%) Pearl Bright red Mica(70%) Pearl Bright red Mica(70%) Pearl Mica(55%) Mica(65%) Pearl Yellow Mica(65%) Pearl Orange Mica(65%) Frio2(32%) Silver	anediol in-3-one(CAS#:26172-55-4) + 2- CAS#2682-20-4) (3:1) lymer with ethyl 2-propenoate polymer Mica	57-55-6 55965-84-9 25212-88-8 9003-01-4 12001-26-2 13463-67-7 12001-26-2	3.12% 0.08% 3.33% 26.96%	3.12% 0.08% 3.33%	3.12% 0.08% 3.33%	3.12% 0.08% 3.33%	3.12% 0.08% 3.33%	3.12% 0.08% 3.33%	3.12% 0.08% 3.33%	3.12% 0.08%	3.12% 0.08%	3.12% 0.08%	3.12% 0.08%	3.12% 0.08%
mix of 5-Chloro-2-methyl-4-isothiazoli 2-Propenoic acid, 2-methyl-, pol 2-Propenoic acid, 2-methyl-, pol Acrylic acid Silver Image: Silver Mica(54%) Pearl pink Mica(70%) Pearl Carmine(2%) Mica(70%) Pearl Bright red Mica(70%) Pearl Pinkk Mica(70%) Pearl Gramine(2%) Mica(70%) Pearl Bright red Mica(65%) Pearl Yellow Mica(65%) Pearl Yellow Mica(65%) Pearl Orange Filo2(32%)	in-3-one(CAS#:26172-55-4) + 2- CAS#2682-20-4) (3:1) lymer with ethyl 2-propenoate polymer Mica	55965-84-9 25212-88-8 9003-01-4 12001-26-2 13463-67-7 12001-26-2	0.08% 3.33% 26.96%	0.08%	0.08%	0.08%	0.08%	0.08%	0.08%	0.08%	0.08%	0.08%	0.08%	0.08%
Methyl-4-isothiazolin-3-one(2-Propenoic acid, 2-methyl-, pol Acrylic acid Acrylic acid Silver Inca(54%) TiO2(44%) Carmine(2%) Pearl pink Mica(70%) Pearl Carmine Carmine(2%) Pearl Bright red TiO2(28%) Pearl Yellow Mica(55%) Pearl Vellow Pearl Orange FriO2(32%) Silver	CAS#2682-20-4) (3:1) lymer with ethyl 2-propenoate polymer Mica	25212-88-8 9003-01-4 12001-26-2 13463-67-7 12001-26-2	3.33% 26.96%	3.33%	3.33%	3.33%	3.33%	3.33%	3.33%					
Acrylic acid Acrylic acid Acrylic acid Acrylic acid Acrylic acid Acrylic acid Acrylic acid Acrylic acid Acrylic acid Mica(5%) TiO2(28%) Carmine(2%) TiO2(28%) Acid Aci	polymer Mica	9003-01-4 9003-01-4 12001-26-2 13463-67-7 12001-26-2	26.96%							3.33%	3.33%	3.33%	3.33%	
Silver Mica(54%) Pearl pink Mica(54%) TIO2(44%) Carmine(2%) Pearl Carmine Mica(70%) Pearl Carmine TIO2(28%) Carmine(2%) Mica(70%) Pearl Bright red Mica(70%) Pearl Bright red Mica(65%) Pearl Yellow Mica(65%) Yellow(2%) Mica(65%) Pearl Orange Mica(65%) FiO2(32%) S#Yellow(3%)	Mica	12001-26-2 13463-67-7 12001-26-2		26.96%	26.96%	26.96%	26.96%	26.96%					0.0070	3.33%
Mica(54%) Pearl pink Mica(70%) Carmine(2%) Mica(70%) Pearl Carmine TiO2(28%) Carmine(2%) Mica(70%) Pearl Bright red TiO2(27%) Pearl Yellow Mica(65%) Pearl Yellow Mica(65%) Pearl Orange Mica(65%) Fearl Orange S#Yellow(3%)		13463-67-7 12001-26-2	19.10%						26.96%	26.96%	26.96%	26.96%	26.96%	26.96%
Mica(54%) Pearl pink Mica(70%) Pearl Carmine Mica(70%) Pearl Carmine TiO2(28%) Pearl Bright red Mica(70%) Pearl Bright red TiO2(27%) Pearl Yellow Mica(65%) Pearl Yellow Mica(65%) Pearl Orange Mica(65%) Pearl Orange Mica(65%)		13463-67-7 12001-26-2	19.10%											
Mica(54%) Pearl pink Mica(70%) Pearl Carmine Mica(70%) Pearl Carmine TiO2(28%) Pearl Bright red Mica(70%) Pearl Bright red TiO2(27%) Pearl Yellow Mica(65%) Pearl Yellow Mica(65%) Pearl Orange Mica(65%) Pearl Orange Mica(65%)		13463-67-7 12001-26-2	19.10%		1									
Mica(54%) Pearl pink Mica(70%) Carmine(2%) Mica(70%) Pearl Carmine TiO2(28%) Carmine(2%) Mica(70%) Pearl Bright red TiO2(27%) Pearl Yellow Mica(65%) Pearl Yellow Mica(65%) Pearl Orange Mica(65%) Fearl Orange S#Yellow(3%)	Tio ₂	12001-26-2	19.10%											
Pearl pink TiO2(44%) Carmine(2%) Mica(70%) Pearl Carmine Garmine(2%) Quertion Pearl Bright red TiO2(27%) Red(3%) Pearl Yellow Mica(65%) Yellow(2%) Pearl Orange 5#Yellow(3%)		12001-26-2												
Pearl pink TiO2(44%) Carmine(2%) Pearl Carmine Mica(70%) Pearl Carmine Alica(70%) Pearl Bright red Pearl Bright red Pearl Vellow Pearl Yellow Pearl Orange Mica(65%) TiO2(32%) S#Yellow(3%)														
Carmine(2%) Carmine(2%) Mica(70%) TiO2(28%) Pearl Carmine Mica(70%) Pearl Bright red TiO2(27%) Red(3%) Pearl Yellow Mica(55%) Yellow(2%) Pearl Orange 5#Yellow(3%)				19.10%										
Mica(70%) Pearl Carmine TiO2(28%) Carmine(2%) Mica(70%) Pearl Bright red TiO2(27%) Red(3%) Mica(65%) Pearl Yellow Mica(65%) Yellow(2%) Mica(65%) Pearl Orange TiO2(32%) 5#Yellow(3%) S#Yellow(3%)		1390-65-4		10.1070										
Pearl Carmine TiO2(28%) Carmine(2%) Pearl Bright red TiO2(27%) Red(3%) Red(3%) Pearl Yellow TiO2(33%) Yellow(2%) Yellow(2%) Pearl Orange TiO2(32%) 5#Yellow(3%) S#Yellow(3%)		12001-26-2												
Carmine(2%) Carmine(2%) Mica(70%) TiO2(27%) Red(3%) Pearl Yellow Yellow(2%) Yellow(2%) Pearl Orange 5#Yellow(3%)		13463-67-7			10.100									
Mica(70%) Pearl Bright red TiO2(27%) Red(3%) Red(3%) Pearl Yellow TiO2(33%) Yellow(2%) Yellow(2%) Pearl Orange TiO2(32%) 5#Yellow(3%) S#Yellow(3%)					19.10%						+		<u>├</u> ───┤	
Pearl Bright red TiO2(27%) Red(3%) Red(3%) Pearl Yellow TiO2(33%) Yellow(2%) Yellow(2%) Pearl Orange TiO2(32%) 5#Yellow(3%) Firlow(3%)		1390-65-4												
Red(3%) Pearl Yellow Mica(65%) Yellow(2%) Yellow(2%) Pearl Orange Mica(65%) FiO2(32%) 5#Yellow(3%)		12001-26-2												
Mica(65%) Pearl Yellow TiO2(33%) Yellow(2%) Mica(65%) Pearl Orange TiO2(32%) 5#Yellow(3%) S#Yellow(3%)		13463-67-7				19.10%								
Pearl Yellow TiO2(33%) Yellow(2%) Mica(65%) Pearl Orange TiO2(32%) 5#Yellow(3%)		2786-76-7												
Yellow(2%) Mica(65%) TiO2(32%) 5#Yellow(3%)		12001-26-2												
Mica(65%) Pearl Orange TiO2(32%) 5#Yellow(3%)		13463-67-7					19.10%							
Pearl Orange TiO2(32%) 5#Yellow(3%)		1934-21-0												
5#Yellow(3%)		12001-26-2												
		13463-67-7						19.10%						
Mica(65%)		1934-21-0												
		12001-26-2												
Pearl Bright Blue TiO2(33%)		13463-67-7							19.10%					
Blue(2%)		57455-37-5												
Mica(65%)		12001-26-2												
Pearl Violet TiO2(33%)		13463-67-7								19.10%				
Manganese Violet(2	2%)	10101-66-3												
Mica(65%)		12001-26-2												
Pearl Blue Deep TiO2(33%)		13463-67-7									19.10%			
phthalocyaninato B	Blue(2%)	147-14-8												
Mica(80%)		12001-26-2												
Pearl Apple Green TiO2(12%)		13463-67-7										19.10%		
Green(8%)		12001-99-9										10.1070		
Mica(80%)		12001-26-2											10.100	
Pearl Magic Green TiO2(18%)		13463-67-7											19.10%	
Green(2%)		12001-99-9												
Mica(80%)		12001-26-2												
Pearl Shining Green TiO2(12%)		13463-67-7												19.10%
phthalocyanine(8%		1328-53-6												