Version 1.0	Revision Date 2014/02/17	Print Date 2014/02/17
SECTION 1. PRODUCT AND CO	MPANY IDENTIFICATION	
Product name	: RETIN-A Cream	
Substance name	: tretinoin cream	
Chemical nature	0,1% 0,05% 0,025% 0,01% : Mixture	
Manufacturer or supplier's de Company name of supplier	tails : Janssen Ortho LLC	
Address	: State Road #2 Km 45.6 Manati 00674-0463 PR	
Telephone Emergency telephone number	<ul> <li>+18097878541800</li> <li>+32 14 60 24 44</li> </ul>	
Recommended use of the ch	emical and restrictions on use	
Recommended use	: Finished Pharmaceutical Product group: Anti-acne preparations, occupational use and not for compackaging insert for consumer up provide environmental, health and personnel that will be handling to product. For health and safety in manufacturing of this product we for each component. This dosage form is not exempt OSHA Hazard Communication S 29 CFR Part 1910.1200).	This SDS is only intended for nsumer use (see patient use).This SDS is written to nd safety information for his finished pharmaceutical nformation during e refer to the appropriate SDS from the requirements of the
E-mail address Responsible/issuing person	: SDSJanssen@its.jnj.com	

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **Emergency Overview**

Form	cream
Colour	light yellow
Odour	no data available
Hazard Summary	This Finished Pharmaceutical Product is non-hazardous based on chemical classification rules. Refer to the pharmacotherapeutic group (section 1.2) and the patient packaging insert to evaluate the possible workplace hazards when this Finished Pharmaceutical Product is accidently leaking, broken or crushed.

#### **GHS Classification**

Reproductive toxicity : Category 1B

#### **GHS Label element**

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sion 1.0	Revision Date 2014/02/17         Print Date 2014/02/17	
Hazard pictograms		
Signal word	: Danger	
Hazard statements	: H360 May damage fertility or the unborn child.	
Precautionary statements	<ul> <li>Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/ protective clothing. Response: P308 + P313 IF exposed or concerned: Get medical advice/ attention. Storage: P405 Store locked up. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.</li> </ul>	
labeling.	shed state, intended for the final user, are not subject to GHS	
Self-Ignitable	: no data available	
Potential Health Effects		
Aggravated Medical Condition	: None known.	
Symptoms of Overexposure	<ul> <li>Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.</li> <li>Consult the patient packaging insert for more information about this Finished Pharmaceutical Product.</li> </ul>	
Carcinogenicity:		
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.	
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen	

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

by NTP.

Pure substance/mixture	:	Mixture
------------------------	---	---------

Chemical nature : Mixture

#### Hazardous components

Chemical Name	CAS-No.	Concentration (%)
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-	128-37-0	>= 0.1 - < 1 %

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TRETINOIN		302-79-4 >= 0.1 - < 1 %	
SECTION 4. FIRST AID MEASUR	ŝ		
If inhaled		If breathed in, move person into fresh air. Consult a physician.	
In case of skin contact	Was	e off contaminated clothing an h off with soap and water. mptoms persist, call a physicia	-
In case of eye contact	for a Rem	Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.	
If swallowed	cons	If swallowed, rinse mouth with water (only if the person is conscious). Call a physician immediately.	
Most important symptoms and effects, both acute and delayed	reac Con	Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Consult the patient packaging insert for more information about this Finished Pharmaceutical Product.	
Notes to physician	Con	at symptomatically. sult the patient packaging inse ut this Finished Pharmaceutica	

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Hazardous combustion products	: No hazardous combustion products are known.
Specific extinguishing methods	: No information available.
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures		
Environmental precautions	ould not be released int o not flush into surface w	o the environment. rater or sanitary sewer system.
Methods and materials for containment and cleaning up	ep in properly labelled o	c up with inert absorbent material. containers. he spill with an absorbent towel or

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	Large spills + Small spills: Keep in suitable, closed containers for disposal. Treat recovered material as described in the section "Disposal considerations".	
SECTION 7. HANDLING AND S	TORAGE	
Advice on safe handling	<ul> <li>Do not break, crush or spill this F Product.</li> <li>To avoid thermal decomposition, For personal protection see section Avoid inhalation, ingestion and construction</li> </ul>	do not overheat. on 8.

	·····, 3·····, 1···········, ···,
Conditions for safe storage	<ul> <li>To maintain product quality, do not store in heat or direct sunlight.</li> <li>Store in original container.</li> <li>Keep containers tightly closed in a dry, cool and well- ventilated place.</li> <li>Keep away from heat and sources of ignition.</li> </ul>
Materials to avoid	: None known.
Storage temperature	: <= 25 °C

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components		CAS-No.	Form of exposure	Permissible concentration	Basis
Phenol, 2,6-bis(1,1- dimethylethyl)-4-me		128-37-0	TWA	10 mg/m3	ACGIH
TRETINOIN		302-79-4	TWA	0.003 mg/m3	J&J OEL/PBOEL HHC
			STV	0.03 mg/100cm <sup>2</sup>	J&J OEL/PBOEL HHC
			PBOEL-HHC	3 B	J&J OEL/PBOEL HHC
Further information:	J&J has a haz PBOEL HHC 3		n: PBOEL HHC. This	substance is classified by	/ J&J as being
					J&J OEL/PBOEL HHC
Further information:			or absorption via the al to have adverse ef	skin. fects on reproduction and	fetal development

#### Engineering measures

: All personal protective equipment should be based on a risk assessment. Consult a Environment Health Safety expert if necessary.

/ersion 1.0	Revision Date 2014/02/17	Print Date 2014/02/17
Personal protective equip	nent	
Respiratory protection	<ul> <li>Engineering controls should alw controlling exposures.</li> <li>If respiratory protective equipme activities, the type as well as the factor will depend upon the risk concentrations, hazards, physic substances present.</li> <li>No personal respiratory protectiv required.</li> </ul>	ent is needed for certain e corresponding protection assessment and air al and warning properties of
Hand protection Remarks	: No special precautions required	L
Eye protection	: No special precautions required	l.
Skin and body protection	: No special precautions required	l.
Protective measures	: The type of protective equipmer the Environmental Health and S Consult a Environmental Health necessary.	afety risk assessment.
Hygiene measures	: Handle in accordance with good practice.	d industrial hygiene and safety

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	cream
Colour	:	light yellow
Odour	:	no data available
Odour Threshold	:	no data available
рН	:	2.7 - 4.7
	:	no data available
	:	no data available
Flash point	:	
		no data available
Evapouration rate	:	no data available
Auto-flammability	:	no data available
Upper explosion limit	:	no data available
Lower explosion limit	:	no data available
Vapour pressure	:	no data available
Relative vapour density	:	no data available
Relative density	:	no data available
Density	:	no data available
Solubility(ies)		
Water solubility	:	no data available

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Solubility in other solvents	: no data available	
Partition coefficient: n- octanol/water	: no data available	
Auto-ignition temperature	: no data available	
Thermal decomposition	: no data available	
Viscosity		
Viscosity, dynamic	: no data available	
Viscosity, kinematic	: no data available	
Explosive properties	: no data available	
Oxidizing properties	: no data available	

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity	None reasonably foreseeable.	
Chemical stability	Stable under recommended storage conditions.	
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal	use.
Conditions to avoid	Exposure to sunlight. To avoid thermal decomposition, do not overheat. Heat, flames and sparks.	
Incompatible materials	None known.	
Hazardous decomposition products	None known.	

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Product	
Acute oral toxicity	: Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method
Components:	
Phenol, 2,6-bis(1,1-dimethyle	thyl)-4-methyl- :
Acute oral toxicity	: LD50 rat: > 2,000 mg/kg
	LD50 rabbit: > 2,000 mg/kg
Acute inhalation toxicity	: no data available

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Acute dermal toxicity	:	no data available	
<b>TRETINOIN :</b> Acute oral toxicity	:	LD50 Oral rat: 2,000 mg/kg	
		LD50 Oral mouse: 1,100 mg/kg	
Acute dermal toxicity	:	May be harmful if absorbed through ski	in.
Acute toxicity (other routes of administration)	:	LD50 mouse: 208 mg/kg Application Route: intraperitoneal; inject abdominal area	tion made in the
		LD50 mouse: 92 mg/kg Application Route: intravenous injection	١
		LD50 mouse: 53 mg/kg Application Route: Subcutaneous; injec or neck of animal	ction made in the back

#### Skin corrosion/irritation

#### Components:

Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- : no data available

#### **TRETINOIN**:

no data available

#### Serious eye damage/eye irritation

#### **Components:**

Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- : no data available

#### **TRETINOIN**:

no data available

#### Respiratory or skin sensitisation

#### Product

Species: human Result: May cause sensitisation by skin contact.

#### **Components:**

Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- : no data available

TRETINOIN : no data available Version 1.0

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#### Germ cell mutagenicity

Germ cell mutagenicity	
Components:	
Phenol, 2,6-bis(1,1-dimethyle Germ cell mutagenicity- Assessment	ethyl)-4-methyl- : : No information available.
<b>TRETINOIN :</b> Genotoxicity in vitro	: Type: Ames test Result: negative
	: Type: A mouse lymphoma test Result: positive
Genotoxicity in vivo	: Type: In vivo micronucleus test Test species: mouseResult: negative
Germ cell mutagenicity- Assessment	: Not mutagenic in Ames Test.
Carcinogenicity	
Components:	
Phenol, 2,6-bis(1,1-dimethyle Carcinogenicity - Assessment	ethyl)-4-methyl- : : No information available.
<b>TRETINOIN :</b> Carcinogenicity - Assessment	: No information available.
Reproductive toxicity	
Components:	
<b>TRETINOIN :</b> Reproductive toxicity - Assessment	: No information available.
Reproductive Toxicity/Developm	ent/Teratogenicity
Components:	
Phenol, 2,6-bis(1,1-dimethyle Teratogenicity - Assessment	
<b>TRETINOIN :</b> Species: rat Application Route: Oral >= 1 mg/kg positive	
Species: Monkey Application Route: Oral >= 5 mg/kg positive	

Teratogenicity - Assessment : May damage the unborn child.

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#### STOT - single exposure

#### **Components:**

Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- : Remarks: no data available

#### **TRETINOIN:**

Remarks: no data available

#### **STOT - repeated exposure**

no data available

#### Aspiration toxicity

no data available

#### Further information

#### Product

Photosensitizer - causes sensitization to light.

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

#### <u>Components:</u> Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-:

Toxicity to fish	:	(Fish): 0.199 mg/l Exposure time: 96 h Test Method: LC50
Toxicity to algae	:	EC50 : 0.758 mg/l Exposure time: 96 h
TRETINOIN :		
Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 0.163 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
		NOEC (Danio rerio (zebra fish)): 0.136 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.2 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
		NOEC (Daphnia magna (Water flea)): 0.0366 mg/l Exposure time: 48 h
Toxicity to algae	:	ErC50 (Pseudokirchneriella subcapitata): > 0.102 mg/l Test Method: Growth inhibition Method: OECD Test Guideline 201

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	NOECr (Pseudokirchneriella subcap mg/l Test Method: Growth inhibition Method: OECD Test Guideline 201	pitata (green algae)): 0.102
	EbC50 (Pseudokirchneriella subcap 0.102 mg/l Test Method: Cell multiplication inhi Method: OECD Test Guideline 201	
	NOECb (Pseudokirchneriella subca 0.102 mg/l Test Method: Cell multiplication inhi Method: OECD Test Guideline 201	
Persistence and degradability		
<u>Components:</u> Phenol, 2,6-bis(1,1-dimethyle	thyl)-4-methyl- :	
Biodegradability	: no data available	
TRETINOIN :		
Biodegradability	: no data available	
Bioaccumulative potential		
Product:		
octanol/water <u>Components:</u> Phenol, 2,6-bis(1,1-dimethyle		4
Bioaccumulation	: Bioconcentration factor (BCF): 598.	4
<b>TRETINOIN :</b> Bioaccumulation	: Accumulation in aquatic organisms	s expected.
Partition coefficient: n- octanol/water <b>Mobility in soil</b>	: Pow: 6.3	
Components:	thul) 1 mathul	
Phenol, 2,6-bis(1,1-dimethyle Mobility	: no data available	
TRETINOIN : Mobility	: no data available	
Results of PBT and vPvB assessm	nent	
<u>Components:</u> Phenol, 2,6-bis(1,1-dimethyle Assessment TRETINOIN :	: No information available.	
Assessment	: No information available.	
Other adverse effects		
Product:		
Ozone-Depletion Potential Regulation	40 CFR Protection of Environment; Stratospheric Ozone - CAA Section	
List		

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Group Remarks	This product neither contains, nor Class I or Class II ODS as defined Section 602 (40 CFR 82, Subpt. A	d by the U.S. Clean Air Act
<u>Components:</u> Phenol, 2,6-bis(1,1-dimetl Environmental fate and pathways	n <b>ylethyl)-4-methyl- :</b> : no data available	
TRETINOIN : Environmental fate and pathways Additional ecological information	<ul><li>no data available</li><li>no data available</li></ul>	

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods	
Waste from residues	: In accordance with National, Federal, State and Local regulations.
Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### **SECTION 14. TRANSPORT INFORMATION**

#### International transport regulations

ADR Not dangerous goods

RID Not dangerous goods

**DOT** Not dangerous goods

IATA Not dangerous goods

IMDG Not dangerous goods

#### **SECTION 15. REGULATORY INFORMATION**

#### EPCRA - Emergency Planning and Community Right-to-Know Act

**SARA 302** 

: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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SARA 313	: SARA 313: This material does not c components with known CAS numb threshold (De Minimis) reporting lev Title III, Section 313.	ers that exceed the

#### **Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

#### **US State Regulations**

#### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

California to cause cancer, birth defects, or any other

#### Pennsylvania Right To Know

	Purified water, Octadecanoic a Tetradecanoic		7789-20-0 57-11-4 110-27-0	50 - 70 % 10 - 20 % 10 - 20 % 5 - 10 %
	1-Octadecanol		112-92-5	1 - 5 %
New Jersey Right To Know				
	Purified water, Octadecanoic a Tetradecanoic		7789-20-0 57-11-4 110-27-0 112-92-5	50 - 70 % 10 - 20 % 10 - 20 % 5 - 10 % 1 - 5 %
California Prop		This product does not contair		

reproductive harm.

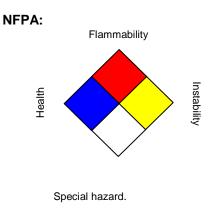
**SECTION 16. OTHER INFORMATION** 

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#### **Further information**



HMIS III:



0 = not significant, 1 =Slight, 2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

#### **Date and Number Formats**

This document uses the following notation for printing dates and numbers:			
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Prepared by: