Canada Colors and Chemicals Limited

152 Kennedy Road South
Brampton, Ontario
Canada
L6W 3G4

General Inquiry Number: (905) 459-1232

Material Safety Data Sheet Attached
1. PRODUCT AND COMPANY IDENTIFICATION

Product name : HYDROVANCE

Product Use Description : Specific use(s): Cosmetic additive

Company : Akzo Nobel Surface Chemistry AB
            Stenunge Alle 3
            Stenungsund 444 85
            Sweden

Telephone : +4630385000
Fax : +4630384659
E-mail address : Regulatory.Affairs@akzonobel.com
Emergency telephone : 020 99 60 00 Kemiakuten, SE +31 57 06 79 211 24 hours

2. HAZARDS IDENTIFICATION

Emergency Overview

<table>
<thead>
<tr>
<th>Appearance</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>light yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>odorless</td>
</tr>
</tbody>
</table>

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

Not a hazardous substance or mixture.

Potential Health Effects

Inhalation : Not expected to be irritating.
Skin : Not expected to be irritating.
Eyes : Not expected to be irritating.
Ingestion : Not expected to be irritating.

Aggravated Medical Condition : None known.

Symptoms of Overexposure : The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.
Carcinogenicity:

**IARC**: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**: No ingredient 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 by NTP.
3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urea</td>
<td>57-13-6</td>
<td></td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

**General advice**: No hazards which require special first aid measures.

**Inhalation**: If breathed in, move person into fresh air. If symptoms persist, call a physician.

**Skin contact**: Remove contaminated clothing and shoes. Rinse with water.

**Eye contact**: Rinse with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing.

**Ingestion**: Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person.

**Notes to physician**

**Symptoms**: The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.

**Risks**: No information available.

**Treatment**: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Specific hazards during fire fighting / Specific hazards arising from the chemical**: No hazards to be specially mentioned.

**Combustion products**: No hazardous combustion products are known

**Special protective equipment for fire-fighters**: In the event of fire, wear self-contained breathing apparatus.

**Further information**: Standard procedure for chemical fires.
See also Section 9. Physical and chemical properties: Safety data

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: No conditions to be specially mentioned.

Environmental precautions: No special environmental precautions required.

Methods for cleaning up / Methods for containment: Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

Additional advice: For personal protection see section 8.

7. HANDLING AND STORAGE

Handling
Advice on safe handling: For personal protection see section 8. No special handling advice required.

Advice on protection against fire and explosion: Normal measures for preventive fire protection.

Storage
Requirements for storage areas and containers: Keep container tightly closed in a dry and well-ventilated place.

Advice on common storage: No special restrictions on storage with other products.

Minimum storage temperature: Avoid temperatures below: 5 °C (41 °F)

Other data: No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
<th>Form of exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urea</td>
<td>57-13-6</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>2008-01-01</td>
<td>US WEEL</td>
<td></td>
</tr>
</tbody>
</table>

ACGIH: American Conference of Governmental Industrial Hygienists
BEI: Biological Exposure Index
MAC: Maximum Allowable Concentration
NIOSH: National Institute for Occupational Safety and Health
OEL: OEL: Occupational exposure limit.
STEL: Short term exposure limit
TWA: Time Weighted Average

Engineering measures

Effective exhaust ventilation system
**Personal protective equipment**

Eye/face protection  : Safety glasses

Hand protection : Glove material: For prolonged or repeated contact use protective gloves.

: Glove material: Protective gloves complying with EN 374.

Respiratory protection : No personal respiratory protective equipment normally required.

Hygiene measures : General industrial hygiene practice.

**Environmental exposure controls**

General advice : No special environmental precautions required.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance**

Form  : liquid

Color  : light yellow

Odor  : odorless

Odor Threshold  : No data available

**Safety data**

pH  : 6 - 8.5

Melting point/freezing point : No data available

Boiling point/boiling range  : > 100 °C

Flash point  : Not applicable

Evaporation rate  : No data available

Flammability (solid, gas) : Not applicable

Flammability (liquids) : Not classified as a flammability hazard

Lower explosion limit  : Not applicable

Upper explosion limit  : Not applicable

Vapor pressure  : No data available

Relative vapor density  : No data available

Density  : 1,128 kg/m3 at 25 °C
## Relative density
1.13 at 25 °C

## Water solubility
Soluble

## Solubility in other solvents
No data available

## Partition coefficient: n-octanol/water
No data available

## Autoignition temperature
> 100 °C

## Decomposition temperature
No data available

## Viscosity, dynamic
< 200 mPa.s

## Viscosity, kinematic
No data available

## Explosive properties
Not explosive

## Oxidizing properties
The substance or mixture is not classified as oxidizing.

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification.

### 10. STABILITY AND REACTIVITY

#### Conditions to avoid
None known.

#### Materials to avoid
None known.

#### Hazardous decomposition products
No hazardous decomposition products are known.

#### Thermal decomposition
No data available

#### Reactivity
Stable under normal conditions.

#### Chemical stability
Stable under recommended storage conditions.

#### Hazardous reactions
No dangerous reaction known under conditions of normal use.

### 11. TOXICOLOGICAL INFORMATION

#### PRODUCT INFORMATION:

**Toxicology Assessment**

Further information: No further data available.

**Test result**

Acute oral toxicity:
- LD50: > 5,000 mg/kg
- Species: Rat
- Method: OECD Test Guideline 401
Acute dermal toxicity: Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Carcinogenicity:
IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA: No ingredient 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 by NTP.

TOXICOLOGY DATA FOR THE INGREDIENTS:

Test result

Component: Urea
Acute oral toxicity: LD50: > 5,000 mg/kg
Species: Rat
Literature data.

12. ECOLOGICAL INFORMATION

PRODUCT INFORMATION:

Ecotoxicology Assessment
Additional ecological information: None known.

Test result

Ecotoxicity effects
Toxicity to fish: LC50: > 1,000 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout)

Elimination information (persistence and degradability)
Bioaccumulation: Bioaccumulation is unlikely.
Mobility: No data available
Biodegradability: Result: Readily biodegradable.
Method: OECD Test Guideline 301B

Further information on ecology
Biochemical Oxygen Demand (BOD): No data available
Hazardous to the ozone layer
Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

INGREDIENTS:

Test result
Component: Urea

Ecotoxicity effects:
Toxicity to fish: LC50: > 100 mg/l
Exposure time: 96 h
Species: Fish
Literature data.

Elimination information (persistence and degradability)
Bioaccumulation: No data available
Mobility: No data available
Biodegradability: Result: Readily biodegradable.
Literature data.

Further information on ecology
Biochemical Oxygen Demand (BOD): No data available

13. DISPOSAL CONSIDERATIONS
Product: Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Contaminated packaging: Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION
International Regulation
ADR: Not regulated as a dangerous good
UNRTDG
Not regulated as a dangerous good

**IATA-DGR**
Not regulated as a dangerous good

**IMDG-Code**
Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
Not applicable for product as supplied.

**Further information for transport**
Not classified as dangerous in the meaning of transport regulations.

**Domestic regulation**

<table>
<thead>
<tr>
<th>49 CFR</th>
<th>Not regulated as a dangerous good</th>
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</thead>
<tbody>
<tr>
<td>TDG</td>
<td>Not regulated as a dangerous good</td>
</tr>
<tr>
<td>NOM-002-SCT</td>
<td>Not regulated as a dangerous good</td>
</tr>
</tbody>
</table>

**15. REGULATORY INFORMATION**

**Notification status**

<table>
<thead>
<tr>
<th>TSCA</th>
<th>YES. All chemical substances in this product are either listed on the TSCA Inventory or in compliance with a TSCA Inventory exemption.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSL</td>
<td>YES. All components of this product are on the Canadian DSL</td>
</tr>
<tr>
<td>AICS</td>
<td>YES. On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>NZIoC</td>
<td>YES. On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>ENCS</td>
<td>NO. Not in compliance with the inventory</td>
</tr>
<tr>
<td>ISHL</td>
<td>NO. Not in compliance with the inventory</td>
</tr>
<tr>
<td>KECl</td>
<td>NO. Not in compliance with the inventory</td>
</tr>
<tr>
<td>PICCS</td>
<td>NO. Not in compliance with the inventory</td>
</tr>
<tr>
<td>IECSC</td>
<td>NO. Not in compliance with the inventory</td>
</tr>
</tbody>
</table>

For explanation of abbreviations, see section 16.

**TSCA list**

| TSCA 5(a)(2)            | No substances are subject to a Significant New Use Rule.                                                                          |
| TSCA 12(b)              | No substances are subject to TSCA 12(b) export notification requirements.                                                          |

**EPCRA - Emergency Planning and Community Right-to-Know**

**CERCLA Reportable Quantity**
This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**
This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards**
No SARA Hazards

**SARA 302**
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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 subject to disclosure and listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

Urea 57-13-6

Clean Water Act

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

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

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307.

California Prop. 65

WARNING! This product contains a chemical known in the State of California to cause cancer.

Diethanolamine 111-42-2

16. OTHER INFORMATION

Full text of other abbreviations

(Q)SAR - (Quantitative) Structure Activity Relationship; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50% of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TDG - Transportation of Dangerous Goods; UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System; DSL - Domestic Substances List (Canada); KECl - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical
Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

Further information

HMIS Classification

<table>
<thead>
<tr>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Physical Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

NFPA Classification

<table>
<thead>
<tr>
<th>Health Hazard</th>
<th>Fire Hazard</th>
<th>Reactivity Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Notification status explanation

REACH 1907/2006 (EU)
TSCA United States TSCA Inventory
DSL Canadian Domestic Substances List (DSL)
AICS Australia Inventory of Chemical Substances (AICS)
NZIoC New Zealand Inventory of Chemical Substances
ENCS Japan. ENCS - Existing and New Chemical Substances Inventory
ISHL Japan. ISHL - Inventory of Chemical Substances
KECI Korea. Korean Existing Chemicals Inventory (KECI)
PICCS Philippines Inventory of Chemicals and Chemical Substances (PICCS)
IECSC China. Inventory of Existing Chemical Substances in China (IECSC)

Further information

Revision Date 11/13/2015

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