



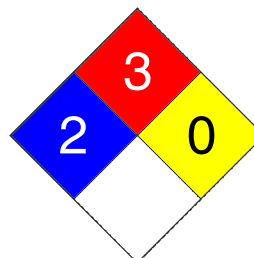
MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Dynamic Kwik Clean
Synonym(s) AA301100
AA301200
CAS # Mixture
Product Use Solvent Cleaner
Manufacturer Dynamic Paint Products Inc.
7040 Financial Drive
Mississauga, ON L5N 7H5 CA
Phone: 1-905-812-9319
Emergency Phone: 1-613-996-6666 (CANUTEC)

| LEGEND HMIS/NFPA | |
|---------------------|---|
| Severe | 4 |
| Serious | 3 |
| Moderate | 2 |
| Slight | 1 |
| Minimal | 0 |

| | |
|---------------------|-----|
| Health | * 2 |
| Flammability | 3 |
| Physical Hazard | 0 |
| Personal Protection | B |



2. Hazards Identification

Emergency Overview DANGER
Flammable liquid - may release vapours that form flammable mixtures at or above the flash point. Containers may explode when heated.
Eye and skin irritant. Contains potential teratogens.

Potential short term health effects

Routes of exposure Eye, Skin contact, Skin absorption, Inhalation, Ingestion.

Eyes Causes irritation.

Skin Causes irritation. May be absorbed through the skin.

ACGIH - Threshold Limit Values - Skin Notations
Methyl alcohol 67-56-1 Skin - potential significant contribution to overall exposure by the cutaneous route

NIOSH - Pocket Guide - Skin Notations
Methyl alcohol 67-56-1 Potential for dermal absorption

Inhalation Harmful if inhaled. Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).

Ingestion Harmful if swallowed. May cause stomach distress, nausea or vomiting. Aspiration of material into lungs can cause chemical pneumonitis.

Target organs Eyes. Kidney. Liver. Respiratory system. Skin.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, oedema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

3. Composition/Information on Ingredients

| Ingredient(s) | CAS # | Percent |
|----------------|----------|----------|
| Methyl alcohol | 67-56-1 | 10 - 30 |
| Toluene | 108-88-3 | 60 - 100 |

4. First Aid Measures

First aid procedures

Eye contact

Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention if irritation develops or persists.

| | |
|---------------------------|---|
| Skin contact | Immediately flush with water. Wash with soap and water. Obtain medical attention if irritation persists. |
| Inhalation | If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately. |
| Ingestion | Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Obtain medical attention. |
| Notes to physician | Symptoms may be delayed. |
| General advice | Keep away from sources of ignition. No smoking. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children. |

5. Fire-fighting Measures

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|---|---|
| Flammable properties | Flammable by WHMIS criteria. Vapours may travel to a source of ignition and flash back. Containers may explode when heated. |
| Extinguishing media | |
| Suitable extinguishing media | Carbon dioxide. Water spray. Dry chemical. Foam. Water Fog. |
| Unsuitable extinguishing media | Not available |
| Protection of firefighters | |
| Specific hazards arising from the chemical | Not available |
| Protective equipment for firefighters | Firefighters should wear full protective clothing including self contained breathing apparatus. |
| Hazardous combustion products | May include and are not limited to: Oxides of carbon. Formaldehyde. |
| Explosion data | |
| Sensitivity to mechanical impact | Not available |
| Sensitivity to static discharge | Not available |

6. Accidental Release Measures

| | |
|--------------------------------|---|
| Personal precautions | Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. |
| Methods for containment | Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. Use water spray to reduce vapours or divert vapour cloud drift. |
| Methods for cleaning up | Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use. Large Spills: Wet down with water and dike for later disposal. After removal flush contaminated area thoroughly with water. |

7. Handling and Storage

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|-----------------|---|
| Handling | Use good industrial hygiene practices in handling this material. |
| Storage | Keep out of reach of children. Store in a closed container away from incompatible materials. Keep away from heat, open flames or other sources of ignition. |

8. Exposure Controls / Personal Protection

Exposure limit values

| Ingredient(s) | Exposure limit values |
|---------------|-----------------------|
|---------------|-----------------------|

| | |
|----------------|---|
| Methyl alcohol | ACGIH-TLV TWA: 200 ppm STEL: 250 ppm |
|----------------|---|

| | |
|---------|---|
| Toluene | ACGIH-TLV TWA: 20 ppm Skin: 50 ppm |
|---------|---|

Engineering controls Use only under good ventilation conditions or with respiratory protection.

Personal protective equipment

| | |
|---------------------------------------|---|
| Eye/Face protection | Wear safety glasses with side shields. |
| Hand protection | Rubber gloves. Confirm with a reputable supplier first. |
| Skin and body protection | As required by employer code. |
| Respiratory protection | Avoid breathing mists or vapours. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. |
| General hygiene considerations | Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product. |

9. Physical and Chemical Properties

| | |
|---|-----------------------------|
| Appearance | Clear. |
| Colour | Colourless |
| Form | Liquid |
| Odour | Solvent |
| Odour threshold | Not available |
| Physical state | Liquid |
| pH | Not available |
| Freezing point | Not available |
| Boiling point | 64 °C (147.20 °F) |
| Pour point | Not available |
| Flash point | 5 °C (41.00 °F) TCC |
| Evaporation Rate | 1.8 (Ether = 1) |
| Flammability limits in air, lower, % by volume | 1.2 |
| Flammability Limits in Air, Upper, % by Volume | 12 |
| Vapour pressure | 47.7 mmHg |
| Vapour density | 2.83 (Air = 1) |
| Specific gravity | 0.87 (H ₂ O - 1) |
| Octanol/water coefficient | Not available |
| Solubility (H₂O) | Emulsifiable |
| Auto-ignition temperature | Not available |
| Viscosity | Water thin |
| Percent volatile | 95 (Wt %) |

10. Stability and Reactivity

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|---|--|
| Chemical stability | Stable under recommended storage conditions. |
| Conditions to avoid | Avoid high temperatures. Do not mix with other chemicals. |
| Incompatible materials | Strong oxidizing agents. Acids. Caustics. |
| Hazardous decomposition products | May include and are not limited to: Oxides of carbon. Formaldehyde when heated to decomposition. |

11. Toxicological Information

Component analysis - LC50

| Ingredient(s) | LC50 |
|----------------|------------------|
| Methyl alcohol | Not available |
| Toluene | 12.5 mg/l/4h rat |

Component analysis - Oral LD50

| Ingredient(s) | LD50 |
|----------------|---|
| Methyl alcohol | 5628 mg/kg rat; 7300 mg/kg mouse; 14200 mg/kg rabbit; 7600 mg/kg Monkey |
| Toluene | 636 mg/kg rat |

Effects of acute exposure

- Eye** Causes irritation.
- Skin** Causes irritation. May be absorbed through the skin.

ACGIH - Threshold Limit Values - Skin Notations

Methyl alcohol 67-56-1 Skin - potential significant contribution to overall exposure by the cutaneous route

NIOSH - Pocket Guide - Skin Notations

Methyl alcohol 67-56-1 Potential for dermal absorption

Inhalation Harmful if inhaled. Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).

Ingestion Harmful if swallowed. May cause stomach distress, nausea or vomiting. Aspiration of material into lungs can cause chemical pneumonitis.

Sensitisation Non-hazardous by WHMIS criteria.

Chronic effects Non-hazardous by WHMIS criteria.

Carcinogenicity Non-hazardous by WHMIS criteria.

ACGIH - Threshold Limit Values - Carcinogens

Toluene 108-88-3 A4 - Not Classifiable as a Human Carcinogen

IARC - Group 3 (Not Classifiable)

Toluene 108-88-3 Monograph 71 [1999]; Monograph 47 [1989]

Mutagenicity Non-hazardous by WHMIS criteria.

Reproductive effects Non-hazardous by WHMIS criteria.

Teratogenicity Methanol has produced teratogenic effects in mice exposed by inhalation to high concentrations that did not produce significant maternal toxicity. Toluene (benzene, methyl-) has caused fetotoxicity (reduced fetal weight), behavioural effects (effects on learning and memory) and hearing loss (in males). These effects have been observed in the offspring of rats exposed by inhalation to 1200 or 1800 ppm toluene. These effects were observed in the absence of maternal toxicity.

Synergistic Materials Not available

12. Ecological Information

| | | |
|---|---|---|
| Ecotoxicity | Components of this product have been identified as having potential environmental concerns. | |
| Ecotoxicity - Freshwater Algae Data | | |
| Toluene | 108-88-3 | 96 Hr EC50 Pseudokirchneriella subcapitata: >433 mg/L; 72 Hr EC50 Pseudokirchneriella subcapitata: 12.5 mg/L [static] |
| Ecotoxicity - Freshwater Fish Species Data | | |
| Methyl alcohol | 67-56-1 | 96 Hr LC50 Pimephales promelas: 28200 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: >100 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 19500-20700 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 18-20 ml/L [static]; 96 Hr LC50 Lepomis macrochirus: 13500-17600 mg/L [flow-through] |
| Toluene | 108-88-3 | 96 Hr LC50 Pimephales promelas: 15.22-19.05 mg/L [flow-through] (1 day old); 96 Hr LC50 Pimephales promelas: 12.6 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 5.89-7.81 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 14.1-17.16 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 5.8 mg/L [semi-static]; 96 Hr LC50 Lepomis macrochirus: 11.0-15.0 mg/L [static]; 96 Hr LC50 Oryzias latipes: 54 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 28.2 mg/L [semi-static]; 96 Hr LC50 Poecilia reticulata: 50.87-70. |
| Ecotoxicity - Microtox Data | | |
| Methyl alcohol | 67-56-1 | 5 min EC50 Photobacterium phosphoreum: 43000 mg/L; 15 min EC50 Photobacterium phosphoreum: 40000 mg/L; 25 min EC50 Photobacterium phosphoreum: 39000 mg/L |
| Toluene | 108-88-3 | 30 min EC50 Photobacterium phosphoreum: 19.7 mg/L |
| Ecotoxicity - Water Flea Data | | |
| Toluene | 108-88-3 | 48 Hr EC50 Daphnia magna: 5.46 - 9.83 mg/L [Static]; 48 Hr EC50 Daphnia magna: 11.5 mg/L |
| Environmental effects | Harmful to aquatic life. | |
| Aquatic toxicity | Not available | |
| Persistence and degradability | Not available | |
| Bioaccumulation/accumulation | Not available | |
| Partition coefficient | Not available | |
| Mobility in environmental media | Not available | |
| Chemical fate information | Not available | |
| Other adverse effects | Not available | |

13. Disposal Considerations

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|--|--|
| Waste codes | Not available |
| Disposal instructions | Review federal, provincial, and local government requirements prior to disposal. |
| Waste from residues / unused products | Not available |
| Contaminated packaging | Not available |

14. Transport Information

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

| | |
|--------------------------------|------------------------------------|
| Proper shipping name | FLAMMABLE LIQUID, N.O.S. (Toluene) |
| Hazard class | 3 |
| UN number | 1993 |
| Packing group | II |
| Additional information: | |
| Special provisions | 16 |



15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Canada - WHMIS - Ingredient Disclosure List

| | | |
|----------------|----------|-----|
| Methyl alcohol | 67-56-1 | 1 % |
| Toluene | 108-88-3 | 1 % |

WHMIS classification Class B - Division 2 - Flammable Liquid, Class D - Division 2A, 2B

WHMIS status Controlled

WHMIS labeling



Inventory Status

| Country(s) or region | Inventory Name | On Inventory (Yes/No)* |
|----------------------|-------------------------------------|------------------------|
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Disclaimer Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Other Information For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.