

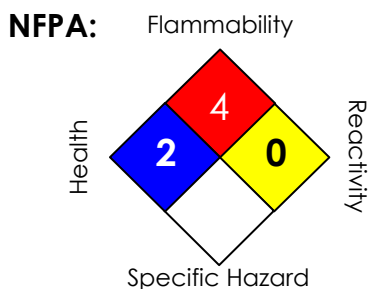
Material Safety Data Sheet

Industrial Enamel Paint, Gloss, JD Green, 425 g

Version 4.1

Revision Date 08/20/2014

Print Date 12/14/2016



HMIS III:

HEALTH	3*
FLAMMABILITY	4
PHYSICAL	0

0 = Insignificant, 1 = Slight,
2 = Moderate, 3 = High, 4 = Extreme

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Commercial Product Name : Industrial Enamel Paint, Gloss, JD Green, 425 g

Product code : 892.179

SDS-Identcode : 10041922

Product Use Description : Colouring agent

Company : Würth Canada Limited
345 Hanlon Creek Blvd
GUELPH, ON N1C 0A1
Canada

Telephone : +1 (905) 564 6225

Telefax : +1 (905) 564 3671

Responsible/issuing person : prodsafe@wuerth.com

Emergency telephone number : In case of emergency please contact: CANUTEC +1 (613) 996 6666 (5:00 pm - 8:00 am). WÜRTH CANADA LIMITED
+1 (905) 564 6225 (8:00 am - 5:00 pm)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Regulatory status : This product, material or substance is a WHMIS controlled product per Sections 33 - 66, Part IV of the CPR.

Signal Word : DANGER

Form : aerosol

Colour : green

Odour : Not applicable

Odour - Control : No data available

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parameters

Hazard Summary

: Toxic

Flammable aerosol
May cause birth defects.
May cause cancer.
Compressed gas
May cause fire.
Pressurized container. Protect from sunlight and do not
expose to temperatures exceeding 50°C / 122 °F.

Potential Health Effects

Skin

: Harmful if absorbed through skin.
May cause skin irritation.

Eyes

: Causes eye irritation.

Inhalation

: May cause respiratory tract irritation.

Chronic Exposure

: Suspect reproductive hazard - contains material which
may injure unborn child.

Target Organs

: Eyes
Skin
Respiratory system

ACGIH

: ethylbenzene (CAS-No.: 100-41-4)
4-methylpentan-2-one (CAS-No.: 108-10-1)

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.

IARC

: ethylbenzene (CAS-No.: 100-41-4)
4-methylpentan-2-one (CAS-No.: 108-10-1)

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.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Weight percent- Weight percent
acetone	67-64-1	>= 55 - < 60
propane	74-98-6	>= 25 - < 35
butane	106-97-8	>= 7 - < 10
2-methoxy-1-methylethyl acetate	108-65-6	>= 3 - < 5
xylene	1330-20-7	>= 3 - < 5
4-methylpentan-2-one	108-10-1	>= 3 - < 5
Ethyl 3-ethoxypropionate	763-69-9	>= 3 - < 5
2-(propyloxy)ethanol	2807-30-9	>= 3 - < 5
pentan-2-one	107-87-9	>= 3 - < 5
ethylbenzene	100-41-4	>= 0.75 - < 1

SECTION 4. FIRST AID MEASURES

- General advice : If you feel unwell, seek medical advice (show the label where possible). First aider needs to protect himself. Move out of dangerous area. Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.
- Inhalation : If breathed in, move person into fresh air. In the case of inhalation of aerosol/mist consult a physician if necessary. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- Skin contact : In case of contact, immediately flush skin with soap and plenty of water. Do NOT use solvents or thinners. If skin irritation persists, call a physician.
- Eye contact : Protect unharmed eye. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Ingestion : If swallowed, seek medical advice immediately and show this container or label. If swallowed, DO NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position.

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SECTION 5. FIREFIGHTING MEASURES

- | | | |
|---|---|--|
| Form | : | aerosol |
| Lower explosion limit | : | 1 %(V) |
| Upper explosion limit | : | 16 %(V) |
| Suitable extinguishing media | : | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Specific hazards during firefighting | : | Do not use a solid water stream as it may scatter and spread fire.
Hazardous decomposition products may be formed under fire conditions (see section 10).
Exposure to decomposition products may be a hazard to health. |
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment. |
| Further information | : | Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
In the event of fire and/or explosion do not breathe fumes.
Use water spray to cool unopened containers.
Collect contaminated fire extinguishing water separately.
This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
If the temperature rises there is danger of the vessels bursting due to the high vapor pressure. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | | |
|----------------------|---|--|
| Personal precautions | : | Refer to protective measures listed in sections 7 and 8.
Use personal protective equipment. |
|----------------------|---|--|

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Remove all sources of ignition.
Avoid contact with skin and eyes.
Ensure adequate ventilation, especially in confined areas.
Immediately evacuate personnel to safe areas.
Avoid inhalation of vapour or mist.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for cleaning up : Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.
Clean contaminated surface thoroughly.

SECTION 7. HANDLING AND STORAGE**Handling**

Handling : For personal protection see section 8.
Limit the stocks at work place.
Use only in well-ventilated areas.
Do not breathe vapours or spray mist.
Avoid contact with skin and eyes.
Do not spray on a naked flame or any incandescent material.
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.
Take precautionary measures against static discharges.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.
Vapours are heavier than air and may spread along floors.
Vapours may form explosive mixtures with air.
Keep away from heat and sources of ignition.
Do not smoke.
No sparking tools should be used.
Electrical equipment should be protected to the appropriate standard.

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Dust explosion class : Not applicable

Storage

Requirements for storage areas and containers : Store in original container.
BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Please observe the storage instructions for aerosols!

Advice on common storage : Incompatible with oxidizing agents.
Incompatible with acids and bases.
Keep away from reducing agents.
Do not store together with oxidizing and self-igniting products.
Keep away from food, drink and animal feedingstuffs.

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components	CAS-No.	List	Type:	Value	Update
acetone	67-64-1	CA AB OEL	TWA	500 ppm 1,200 mg/m ³	2009-04-30
		CA AB OEL	STEL	750 ppm 1,800 mg/m ³	2009-04-30
		CA BC OEL	TWA	250 ppm	2006-11-29
		CA BC OEL	STEL	500 ppm	2006-11-29
		CA QC OEL	TWAEV	500 ppm 1,190 mg/m ³	2006-12-29
		CA QC OEL	STEV	1,000 ppm 2,380 mg/m ³	2006-12-29
propane	74-98-6	CA AB OEL	TWA	1,000 ppm	2009-04-30
		CA BC OEL	TWA	1,000 ppm	2006-11-29
		CA QC OEL	TWAEV	1,000 ppm 1,800 mg/m ³	2006-12-29
		CA ON OEL	TWA	1,000 ppm	2010-11-05
butane	106-97-8	CA AB OEL	TWA	1,000 ppm	2009-04-30
		CA BC OEL	TWA	600 ppm	2006-11-29

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		CA BC OEL	STEL	750 ppm	2006-11-29
		CA QC OEL	TWAEV	800 ppm 1,900 mg/m3	2006-12-29
		CA ON OEL	TWA	800 ppm	2012-06-12
2-methoxy-1-methylethyl acetate	108-65-6	CA BC OEL	TWA	50 ppm	2006-11-29
		CA BC OEL	STEL	75 ppm	2006-11-29
		CA ON OEL	TWA	50 ppm 270 mg/m3	2010-11-05
xylene	1330-20-7	CA AB OEL	TWA	100 ppm 434 mg/m3	2009-04-30
		CA AB OEL	STEL	150 ppm 651 mg/m3	2009-04-30
		CA QC OEL	TWAEV	100 ppm 434 mg/m3	2008-02-23
		CA QC OEL	STEV	150 ppm 651 mg/m3	2008-02-23
		CA BC OEL	TWA	100 ppm	2007-07-06
		CA BC OEL	STEL	150 ppm	2007-07-06
4-methylpentan-2-one	108-10-1	CA AB OEL	TWA	50 ppm 205 mg/m3	2007-01-01
		CA AB OEL	STEL	75 ppm 307 mg/m3	2007-01-01
		CA BC OEL	TWA	20 ppm	2012-04-20
		CA BC OEL	STEL	75 ppm	2012-04-20
		CA QC OEL	TWAEV	50 ppm 205 mg/m3	2006-12-29
		CA QC OEL	STEV	75 ppm 307 mg/m3	2006-12-29
Ethyl 3-ethoxypropionate	763-69-9	CA ON OEL	TWA	50 ppm 300 mg/m3	2010-11-05
2-(propyloxy)ethanol	2807-30-9	CA ON OEL	TWA	25 ppm 110 mg/m3	2010-11-05
pentan-2-one	107-87-9	CA AB OEL	TWA	200 ppm 705 mg/m3	2004-04-30
		CA AB OEL	STEL	250 ppm 881 mg/m3	2004-04-30
		CA AB OEL	TWA	200 ppm 705 mg/m3	2007-01-01
		CA AB OEL	STEL	250 ppm 881 mg/m3	2007-01-01
		CA BC OEL	TWA	150 ppm	2006-11-29
		CA BC OEL	STEL	250 ppm	2006-11-29
		CA ON OEL	TWAEV	200 ppm 700 mg/m3	2005-02-03
		CA QC OEL	TWAEV	150 ppm 530 mg/m3	2006-12-29
ethylbenzene	100-41-4	CA AB OEL	TWA	100 ppm 434 mg/m3	2007-01-01
		CA AB OEL	STEL	125 ppm 543 mg/m3	2007-01-01
		CA BC OEL	TWA	20 ppm	2011-09-15
		CA QC OEL	STEV	125 ppm 543 mg/m3	2006-12-29
		CA QC OEL	TWAEV	100 ppm 434 mg/m3	2006-12-29

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- Engineering measures : Provide sufficient air exchange and/or exhaust in work rooms.
- Eye protection : Tightly fitting safety goggles
Do not wear contact lenses.
- Hand protection : Wear suitable gloves.
Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work.
For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.
- Skin and body protection : Flame retardant antistatic protective clothing.
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : Wear respiratory protection.
Product contains low-boiling liquids. Respiratory protective equipment must be air supplied respirators.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.
Do not inhale aerosol.
Avoid contact with skin, eyes and clothing.
When using do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Follow the skin protection plan.
Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : aerosol
Colour : green
Lower explosion limit : 1 %(V)

Upper explosion limit : 16 %(V)

Relative vapour density : 5
(Air = 1.0)

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Density	: 0.79 - 0.8 g/cm ³
Water solubility	: completely soluble
Solubility in other solvents	: Medium: Acetone soluble
	: Medium: Diethylether partly soluble

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	: Heat, flames and sparks.
Materials to avoid	: Oxidizing agents Reducing agents Acids and bases
Hazardous decomposition products	: Carbon oxides
Hazardous reactions	: Vapours may form explosive mixtures with air. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure. Note: No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity	: Mild respiratory irritant
Skin irritation	: Prolonged skin contact may cause skin irritation and/or dermatitis.
Eye irritation	: Severe eye irritation
Carcinogenicity	: No data is available on the product itself.
Reproductive toxicity	: No data is available on the product itself.
Teratogenicity	: No data is available on the product itself.
Further information	: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Vapours may cause drowsiness and dizziness.

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Component:

acetone

67-64-1

Acute oral toxicity: LD50 Rat
Dose: 5,800 mg/kg

Acute dermal toxicity: LD50 Rabbit
Dose: > 7,426 mg/kg

Acute inhalation toxicity: LC50 Rat
Dose: 76 mg/l/Exposure time: 4 h

Skin irritation: Result: Repeated exposure may cause skin dryness or cracking.

Skin irritation: Guinea pig
Result: No skin irritation

Eye irritation: Rabbit
Result: Irritation to eyes, reversing after 7 to 21 days.

Carcinogenicity: Animal testing did not show any carcinogenic effects.

Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Reproductive toxicity: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

butane

106-97-8

Acute inhalation toxicity: LC50 Rat
Dose: 658 mg/l/Exposure time: 4 h

2-methoxy-1-methylethyl
acetate

108-65-6

Acute oral toxicity: LD50 Rat
Dose: >= 5,155 mg/kg

Acute dermal toxicity: LD50 Rat
Dose: > 5,000 mg/kg

Acute inhalation toxicity: LC0 Rat
Dose: > 4345 ppm
Exposure time: 6 h

Skin irritation: Rabbit
Result: No skin irritation

Eye irritation: Rabbit
Result: No eye irritation

xylene

1330-20-7

Acute dermal toxicity: LD50
Dose: > 1,000 - 2,000 mg/kg

Acute inhalation toxicity: LC50
Dose: > 10 - 20 mg/l/Exposure time: 4 h

Skin irritation: Result: Severe skin irritation

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4-methylpentan-2-one	108-10-1	<u>Acute oral toxicity:</u> LD50 Rat Dose: 2,980 mg/kg Method: OECD Test Guideline 401 <u>Acute dermal toxicity:</u> LD50 Rat Dose: > 2,000 mg/kg Method: OECD Test Guideline 402 <u>Acute inhalation toxicity:</u> LC50 Rat Dose: > 8.2 - < 16.4 mg/l > 2000 - < 4000 ppm Exposure time: 4 h Method: OECD Test Guideline 403 <u>Skin irritation:</u> Rabbit Result: No skin irritation Method: OECD Test Guideline 404 <u>Eye irritation:</u> Rabbit Result: irritating <u>Carcinogenicity:</u> Limited evidence of carcinogenicity in animal studies <u>Mutagenicity:</u> In vivo tests did not show mutagenic effects <u>Reproductive toxicity:</u> No toxicity to reproduction
2-(propyloxy)ethanol	2807-30-9	<u>Acute dermal toxicity:</u> LD50 Dose: > 1,000 - 2,000 mg/kg <u>Eye irritation:</u> Result: irritating
ethylbenzene	100-41-4	<u>Acute inhalation toxicity:</u> LC50 Dose: > 10 - 20 mg/l Exposure time: 4 h

SECTION 12. ECOLOGICAL INFORMATION

Adsorbed organic bound : not included
halogens (AOX)
Additional ecological : The product should not be allowed to enter drains, water
information courses or the soil.

Component:

acetone	67-64-1	<u>Toxicity to fish:</u> LC50 Species: Pimephales promelas (fathead minnow) Dose: 6,210 - 8,120 mg/l Exposure time: 96 h
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2-methoxy-1-methylethyl
acetate

108-65-6

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia pulex (Water flea)

Dose: 8,800 mg/l

Exposure time: 48 h

Toxicity to algae:

NOEC

Species: Microcystis aeruginosa

Dose: 530 mg/l

Exposure time: 8 d

Toxicity to bacteria:

Respiration inhibition of activated sludge EC50

Species:

Dose: 61.15 mg/l

Exposure time: 30 min

Method: ISO 8192

Toxicity to fish:

LC50

Species: Oncorhynchus mykiss (rainbow trout)

Dose: > 100 - < 180 mg/l

Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: > 500 mg/l

Exposure time: 48 h

Toxicity to algae:

NOEC

Species: Pseudokirchneriella subcapitata (algae)

Dose: >= 1,000 mg/l

Exposure time: 96 h

Toxicity to algae:

ErC50

Species: Pseudokirchneriella subcapitata (algae)

Dose: > 1,000 mg/l

Exposure time: 96 h

Toxicity to bacteria:

Respiration inhibition of activated sludge EC10

Species:

Dose: > 1,000 mg/l

Exposure time: 0.5 h

Method: OECD Test Guideline 209

4-methylpentan-2-one

108-10-1

Toxicity to fish:

LC50

Species: Brachydanio rerio (zebrafish)

Dose: > 179 mg/l

Exposure time: 96 h

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Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: > 200 mg/l

Toxicity to algae:

EC50

Species: Lemna gibba

Dose: > 146 mg/l

Exposure time: 7 h

SECTION 13. DISPOSAL CONSIDERATIONS

Adequate disposal : In accordance with local and national regulations.
This material and its container must be disposed of as hazardous waste.

SECTION 14. TRANSPORT INFORMATION**DOT 49 CFR**

ID No : UN 1950
Proper shipping name : Aerosols
Class : 2.1
Labels : 2.1
Emergency Response : 126
Guidebook Number

TDGR

ID No : UN 1950
Proper shipping name : AEROSOLS
Class : 2.1
Labels : 2.1

ICAO/IATA-DGR

ID No : UN 1950
Proper shipping name : Aerosols, flammable
Class : 2.1
ICAO-Labels : 2.1
Packing instruction (cargo aircraft) : 203
Packing instruction (passenger aircraft) : 203
Packing instruction : Y203

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(passenger aircraft)

Environmentally hazardous : no

IMDG-Code

ID No : UN 1950

Description of the goods : AEROSOLS

Class : 2.1

IMDG-Labels : 2.1

EmS Number 1 : F-D

EmS Number 2 : S-U

Marine pollutant : no

SECTION 15. REGULATORY INFORMATION**WHMIS Classification** : A Compressed Gas
Compressed GasB5 Flammable aerosol
Flammable aerosolD1B Toxic Material Causing Immediate and Serious
Toxic Effects

D2A Very Toxic Material Causing Other Toxic Effects

D2B Toxic Material Causing Other Toxic Effects

Toxic by skin absorption

Teratogen

Carcinogen

Moderate skin irritant

Mild respiratory irritant

Severe eye irritant

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16. OTHER INFORMATION**Further information**

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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