

SAFETY DATA SHEET

HILLYARD® I-FORCE® Cherry Plus Gel Hand Cleaner

Version 1.0	Revision Date: 08.04.2015	MSDS Number: 90090-00001	Date of last issue: - Date of first issue: 08.04.2015
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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : HILLYARD® I-FORCE® Cherry Plus Gel Hand Cleaner
Product code : HIL0036203

Manufacturer or supplier's details

Company name of supplier : HILLYARD INDUSTRIES, INC.
Address : 302 North Fourth Street
St. Joseph, MO 64501
Telephone : 1-816-233-1321 EXT 8285
Emergency telephone : 1-800-424-9300

Recommended use of the chemical and restrictions on use

Recommended use : Skin-care
Restrictions on use : This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 4
Serious eye damage : Category 1
Acute aquatic toxicity : Category 3

SAFETY DATA SHEET

HILLYARD® I-FORCE® Cherry Plus Gel Hand Cleaner

Version 1.0 Revision Date: 08.04.2015 MSDS Number: 90090-00001 Date of last issue: -
Date of first issue: 08.04.2015

GHS Label element

Hazard pictograms



Signal Word

: Danger

Hazard Statements

: H227 Combustible liquid.
H318 Causes serious eye damage.
H402 Harmful to aquatic life.

Precautionary Statements

: **Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
Storage:
P403 + P235 Store in a well-ventilated place. Keep cool.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

Repeated exposure may cause skin dryness or cracking.
Vapors may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
Distillates (petroleum), hydrotreated light	64742-47-8	>= 20 - < 30
Ethoxylated branched C11-14, C13-rich alcohols	78330-21-9	>= 5 - < 10

SECTION 4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice.

If inhaled : If inhaled, remove to fresh air.

SAFETY DATA SHEET

HILLYARD® I-FORCE® Cherry Plus Gel Hand Cleaner

Version 1.0	Revision Date: 08.04.2015	MSDS Number: 90090-00001	Date of last issue: - Date of first issue: 08.04.2015
----------------	------------------------------	-----------------------------	--

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| | Get medical attention if symptoms occur. |
| In case of skin contact | : Wash with water and soap as a precaution.
Get medical attention if symptoms occur. |
| In case of eye contact | : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
If easy to do, remove contact lens, if worn.
Get medical attention immediately. |
| If swallowed | : If swallowed, DO NOT induce vomiting.
Get medical attention if symptoms occur.
Rinse mouth thoroughly with water. |
| Most important symptoms and effects, both acute and delayed | : Prolonged or repeated contact may dry skin and cause irritation.
Causes serious eye damage. |
| Protection of first-aiders | : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists. |
| Notes to physician | : Treat symptomatically and supportively. |
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SECTION 5. FIRE-FIGHTING MEASURES

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| Suitable extinguishing media | : Water spray
Alcohol-resistant foam
Dry chemical
Carbon dioxide (CO ₂) |
| Unsuitable extinguishing media | : High volume water jet |
| Specific hazards during fire fighting | : Do not use a solid water stream as it may scatter and spread fire.
Flash back possible over considerable distance.
Vapors may form explosive mixtures with air.
Exposure to combustion products may be a hazard to health. |
| Hazardous combustion products | : Carbon oxides |
| Specific extinguishing methods | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area. |
| Special protective equipment for fire-fighters | : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment. |

SAFETY DATA SHEET

HILLYARD® I-FORCE® Cherry Plus Gel Hand Cleaner

Version 1.0	Revision Date: 08.04.2015	MSDS Number: 90090-00001	Date of last issue: - Date of first issue: 08.04.2015
----------------	------------------------------	-----------------------------	--

SECTION 6. ACCIDENTAL RELEASE MEASURES

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| Personal precautions, protective equipment and emergency procedures | : Remove all sources of ignition.
Use personal protective equipment.
Follow safe handling advice and personal protective equipment recommendations. |
| Environmental precautions | : Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g. by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained. |
| Methods and materials for containment and cleaning up | : Non-sparking tools should be used.
Soak up with inert absorbent material.
Suppress (knock down) gases/vapors/mists with a water spray jet.
For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements. |

SECTION 7. HANDLING AND STORAGE

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| Technical measures | : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. |
| Local/Total ventilation | : Use with local exhaust ventilation.
Use only in an area equipped with explosion proof exhaust ventilation. |
| Advice on safe handling | : Do not get on skin or clothing.
Avoid inhalation of vapor or mist.
Do not swallow.
Do not get in eyes.
Handle in accordance with good industrial hygiene and safety practice.
Keep container tightly closed.
Keep away from heat and sources of ignition.
Take precautionary measures against static discharges. |

SAFETY DATA SHEET

HILLYARD® I-FORCE® Cherry Plus Gel Hand Cleaner

Version 1.0	Revision Date: 08.04.2015	MSDS Number: 90090-00001	Date of last issue: - Date of first issue: 08.04.2015
----------------	------------------------------	-----------------------------	--

Take care to prevent spills, waste and minimize release to the environment.

- Hygiene measures : Ensure that eye flushing systems and safety showers are located close to the working place.
When using do not eat, drink or smoke.
Wash contaminated clothing before re-use.
- Conditions for safe storage : Keep in properly labeled containers.
Keep tightly closed.
Keep in a cool, well-ventilated place.
Store in accordance with the particular national regulations.
Keep away from heat and sources of ignition.
- Materials to avoid : Do not store with the following product types:
Strong oxidizing agents
Explosives
Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates (petroleum), hydrotreated light	64742-47-8	LMPE-PPT (Mist)	5 mg/m ³	MX OEL
		LMPE-CT (Mist)	10 mg/m ³	MX OEL

- Engineering measures** : Ensure adequate ventilation, especially in confined areas.
Minimize workplace exposure concentrations.
Use only in an area equipped with explosion proof exhaust ventilation.

Personal protective equipment

- Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

- Filter type : Organic vapor Type

- Hand protection
Material : Impervious gloves

- Material : Flame retardant gloves

- Remarks : Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough

SAFETY DATA SHEET

HILLYARD® I-FORCE® Cherry Plus Gel Hand Cleaner

Version 1.0	Revision Date: 08.04.2015	MSDS Number: 90090-00001	Date of last issue: - Date of first issue: 08.04.2015
----------------	------------------------------	-----------------------------	--

time is not determined for the product. Change gloves often!
For special applications, we recommend clarifying the
resistance to chemicals of the aforementioned protective
gloves with the glove manufacturer. Wash hands before
breaks and at the end of workday.

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| Eye protection | : Wear the following personal protective equipment:
Chemical resistant goggles must be worn.
If splashes are likely to occur, wear:
Face-shield |
| Skin and body protection | : Select appropriate protective clothing based on chemical
resistance data and an assessment of the local exposure
potential.
Wear the following personal protective equipment:
Flame retardant antistatic protective clothing.
Skin contact must be avoided by using impervious protective
clothing (gloves, aprons, boots, etc). |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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|---|---------------------|
| Appearance | : gel |
| Color | : translucent, red |
| Odor | : fruity |
| Odor Threshold | : No data available |
| pH | : 6.5 - 8.0 |
| Melting point/freezing point | : No data available |
| Initial boiling point and boiling range | : No data available |
| Flash point | : 93 °C |
| Evaporation rate | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Upper explosion limit | : No data available |
| Lower explosion limit | : No data available |
| Vapor pressure | : No data available |
| Relative vapor density | : No data available |
| Density | : 0.966 g/cm3 |

SAFETY DATA SHEET

HILLYARD® I-FORCE® Cherry Plus Gel Hand Cleaner

Version 1.0	Revision Date: 08.04.2015	MSDS Number: 90090-00001	Date of last issue: - Date of first issue: 08.04.2015
----------------	------------------------------	-----------------------------	--

Solubility(ies) Water solubility	: soluble
Partition coefficient: n-octanol/water	: Not applicable
Autoignition temperature	: No data available
Decomposition temperature	: The substance or mixture is not classified self-reactive.
Viscosity Viscosity, kinematic	: 5,000 - 7,500 mm ² /s
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Combustible liquid. Vapors may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Oxidizing agents
Hazardous decomposition products	: No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	: Inhalation Skin contact Ingestion Eye contact
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Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
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Ingredients:

Distillates (petroleum), hydrotreated light:

SAFETY DATA SHEET

HILLYARD® I-FORCE® Cherry Plus Gel Hand Cleaner

Version 1.0	Revision Date: 08.04.2015	MSDS Number: 90090-00001	Date of last issue: - Date of first issue: 08.04.2015
----------------	------------------------------	-----------------------------	--

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.3 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 3,160 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Ethoxylated branched C11-14, C13-rich alcohols:

Acute oral toxicity : Acute toxicity estimate: 500 mg/kg
Method: Expert judgment

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: No skin irritation

Ingredients:

Distillates (petroleum), hydrotreated light:

Assessment: Repeated exposure may cause skin dryness or cracking.

Ethoxylated branched C11-14, C13-rich alcohols:

Species: Rabbit

Result: No skin irritation

Remarks: Based on data from similar materials

Serious eye damage/eye irritation

Causes serious eye damage.

Ingredients:

Distillates (petroleum), hydrotreated light:

Species: Rabbit

Result: No eye irritation

Ethoxylated branched C11-14, C13-rich alcohols:

Result: Irreversible effects on the eye

Remarks: Based on data from similar materials

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

Product:

Assessment: Does not cause skin sensitization.

SAFETY DATA SHEET

HILLYARD® I-FORCE® Cherry Plus Gel Hand Cleaner

Version 1.0	Revision Date: 08.04.2015	MSDS Number: 90090-00001	Date of last issue: - Date of first issue: 08.04.2015
----------------	------------------------------	-----------------------------	--

Ingredients:

Distillates (petroleum), hydrotreated light:

Test Type: Maximization Test (GPMT)
Routes of exposure: Skin contact
Species: Guinea pig
Result: negative
Remarks: Based on data from similar materials

Ethoxylated branched C11-14, C13-rich alcohols:

Test Type: Human repeat insult patch test (HRIPT)
Routes of exposure: Skin contact
Result: negative
Remarks: Based on data from similar materials

Germ cell mutagenicity

Not classified based on available information.

Ingredients:

Distillates (petroleum), hydrotreated light:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Genotoxicity in vivo : Test Type: Chromosomal aberration
Species: Rat
Application Route: Intraperitoneal injection
Result: negative
Remarks: Based on data from similar materials

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Ingredients:

Distillates (petroleum), hydrotreated light:

Effects on fertility : Test Type: One-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rat
Application Route: Ingestion
Result: negative

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

SAFETY DATA SHEET

HILLYARD® I-FORCE® Cherry Plus Gel Hand Cleaner

Version 1.0	Revision Date: 08.04.2015	MSDS Number: 90090-00001	Date of last issue: - Date of first issue: 08.04.2015
----------------	------------------------------	-----------------------------	--

Repeated dose toxicity

Ingredients:

Distillates (petroleum), hydrotreated light:

Species: Rat

NOAEL: > 10.4 mg/l

Application Route: inhalation (vapor)

Exposure time: 90 d

Remarks: Based on data from similar materials

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Ingredients:

Distillates (petroleum), hydrotreated light:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients:

Distillates (petroleum), hydrotreated light:

Toxicity to fish : LL50 (Danio rerio (zebra fish)): > 250 mg/l
Exposure time: 96 h
Test substance: Water Accommodated Fraction
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Acartia tonsa): > 3,193 mg/l
Exposure time: 48 h
Test substance: Water Accommodated Fraction

Toxicity to algae : EL50 (Skeletonema costatum (marine diatom)): > 3,200 mg/l
Exposure time: 72 h
Test substance: Water Accommodated Fraction

NOELR (Skeletonema costatum (marine diatom)): 993 mg/l
Exposure time: 72 h
Test substance: Water Accommodated Fraction

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Ceriodaphnia dubia (water flea)): > 70 mg/l
Exposure time: 8 d
Test substance: Water Accommodated Fraction

Toxicity to bacteria : EC50: > 100 mg/l
Exposure time: 3 h

SAFETY DATA SHEET

HILLYARD® I-FORCE® Cherry Plus Gel Hand Cleaner

Version 1.0	Revision Date: 08.04.2015	MSDS Number: 90090-00001	Date of last issue: - Date of first issue: 08.04.2015
----------------	------------------------------	-----------------------------	--

Ethoxylated branched C11-14, C13-rich alcohols:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 5.6 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l
Exposure time: 48 h
Remarks: Based on data from similar materials

Toxicity to algae : EC50: > 1 - 10 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials

Toxicity to fish (Chronic toxicity) : NOEC (Lepomis macrochirus (Bluegill sunfish)): > 0.33 mg/l
Exposure time: 30 d
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.77 mg/l
Exposure time: 21 d
Remarks: Based on data from similar materials

Persistence and degradability

Ingredients:

Distillates (petroleum), hydrotreated light:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 82 %
Exposure time: 24 d
Method: OECD Test Guideline 301F

Ethoxylated branched C11-14, C13-rich alcohols:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 95 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Based on data from similar materials

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

SAFETY DATA SHEET

HILLYARD® I-FORCE® Cherry Plus Gel Hand Cleaner

Version 1.0	Revision Date: 08.04.2015	MSDS Number: 90090-00001	Date of last issue: - Date of first issue: 08.04.2015
----------------	------------------------------	-----------------------------	--

Contaminated packaging : Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

International Regulation

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.

Domestic regulation

NOM-002-SCT

Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Federal Law for the control of chemical precursors, essential chemical products and machinery for producing capsules, tablets and pills. : Not applicable

The ingredients of this product are reported in the following inventories:

REACH : All ingredients (pre-)registered or exempt.

TSCA : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

DSL : All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

AICS : All ingredients listed or exempt.

Inventories

SAFETY DATA SHEET

HILLYARD® I-FORCE® Cherry Plus Gel Hand Cleaner

Version 1.0	Revision Date: 08.04.2015	MSDS Number: 90090-00001	Date of last issue: - Date of first issue: 08.04.2015
----------------	------------------------------	-----------------------------	--

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information

Sources of key data used to compile the Material Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Full text of other abbreviations

MX OEL : Mexico. Occupational Exposure Limits
MX OEL / LMPE-PPT : Time weighted average
MX OEL / LMPE-CT : Short term exposure limit

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

MX / Z8