OpsAuditHub opsaudithub.com	DOC ID: **SAF-0231**	REVISION: **Rev 2.4 (2026)**
	STANDARD: **OSHA 29 CFR 1910.1200 / ISO 22241**	AUDIT FREQUENCY: **Monthly Audit**

Diesel Exhaust Fluid Def Handling Sop Template

Operational Scope: This standard operating procedure defines mandatory protocols for receiving, storing, and dispensing Diesel Exhaust Fluid (DEF) to prevent cross-contamination and environmental spills. Compliance mitigates chemical exposure risks and protects sensitive Selective Catalytic Reduction (SCR) emission systems from vehicle downtime.

MANDATORY PPE:	Chemical-Resistant Nitrile Gloves (EN 374), Safety Glasses with Side Shields (ANSI Z87.1), Chemical Splash Goggles, Acid-Resistant Rubber Apron, Steel-Toe Safety Footwear (ASTM F2413)
PREREQUISITES:	Verify location of emergency eyewash station and ensure uninhibited access within 10 seconds. | Inspect dedicated DEF transfer pumps, hoses, and nozzles for absolute particulate and fluid separation cleanliness. | Confirm presence of spill kit containing absorbent pads and neutralizers in the immediate transfer zone.

STORAGE, CONTAINMENT & ENVIRONMENTAL CONTROL

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**DEF Bulk Storage Tank / Tote Integrity**	Tanks and totes must be constructed of approved materials (polyethylene or stainless steel) with zero signs of structural degradation, cracking, or weeping.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
2	**Temperature and Sunlight Management**	Storage area must maintain ambient temperatures between 12°F and 86°F (-11°C to 30°C) and be shielded from direct, prolonged sunlight to prevent urea degradation.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
3	**Secondary Containment Pallets**	Secondary containment must be clean, dry, and capable of holding 110% of the volume of the largest single container stored within the designated zone.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
4	**Signage & Safety Data Sheet (SDS) Access**	Clear hazard warning signage must be posted, and current SDS documentation for DEF must be physically and digitally accessible to all personnel.	**Standard**	[ ] PASS [ ] FAIL [ ] N/A

DISPENSING, TRANSFER & CONTAMINATION PREVENTION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
5	**Dedicated Dispensing Equipment**	All pumps, nozzles, funnels, and hoses must be strictly dedicated to DEF use only to eliminate cross-contamination with fuel, oil, or coolant.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
6	**Nozzle Cleanliness and Dust Caps**	Dispensing nozzles must be equipped with functional dust caps and kept clean of crystallized urea, dirt, and airborne debris prior to insertion.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
7	**Vehicle Filler Neck Inspection**	Fleet vehicle DEF fill necks and surrounding body panels must be wiped clean prior to transfer to prevent dirt ingress into the vehicle's SCR tank.	**Standard**	[ ] PASS [ ] FAIL [ ] N/A
8	**Spill Prevention and Drip Containment**	Small drip trays must be utilized during vehicle refilling operations to catch minor drips and prevent slippery floor conditions or environmental runoff.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A

WASTE MANAGEMENT & EMERGENCY RESPONSE

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
9	**Crystallized Residue Cleanup**	Dried DEF crystal buildup must be flushed immediately with warm water and disposed of per local environmental regulations; never returned to the tank.	**Standard**	[ ] PASS [ ] FAIL [ ] N/A
10	**Spill Kit Inventory**	Spill response station must be fully stocked with designated neutralizing absorbents, disposal bags, and instruction placards.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A

Certified Fleet Technician / Operations Lead Signature: _____	**Date / Time:** _____	**Badge / Cert #:** _____
Site Safety Supervisor / Operations Manager Sign-off: _____	**Review Date:** _____	**Audit Status:** [ ] Approved [ ] Rectify

COMPLIANCE NOTICE: This document must be archived for a minimum of 12 months in accordance with workplace safety recordkeeping guidelines.

DIGITAL INSPECTION UPGRADE: Run this audit on mobile/tablet, attach photos & automate compliance records. **Start Free Mobile Audit →**